CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 22, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Nov. 24	Retaining wall	Philadelphia, Pa.	S	11-15
Dec. 1	Elevator	Charleston, S. C.	S	11-15
11	Suction dredges	Panama	S. & B. S.	11- 8
*15	Ditches	Glendive, Mont.	P., S. & B. S.	11- 1
*15	Structures	Glendive, Mont.	P. & B. S.	11-15
*17	Bridge	Fall River, Mass.	P. & B. S.	11-22
*20	Sluice gates	Cody, Wyo.	P. & B. S.	11-15
*22	Steel derrick	Philippine Islands.	S	11-22

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Nov. 22	Lighting	Minneapolis, Minn.	Nov.	8
Nov. 23	Light plant	Green Bay, Wis.	Nov	1
Nov. 27	Power-house	Norfolk, Va.	Nov.	1
Nov. 29	Power	Peterboro, Ont.	Nov.	1
Nov. 29	Water power	Ottawa, Ont.	Nov.	15
Dec. 3	Light plant	Julesburg, Colo.	Nov.	22
	Advertised, Eng. News, Nov. 22 and 29.			
Dec. 17	Power-house	Sault Ste. Marie, Mich.	Nov.	8

BRIDGES.

Nov. 24	Bridges	Gainesville, Ga.	Nov.	8
Nov. 26	Bridge	Sampson, Mo.	Nov.	15
Nov. 27	Bridge	Philadelphia, Pa.	Nov.	15
	Advertised, Eng. News, Nov. 15 and 22.			
Nov. 29	Bridge	Gilroy, Cal.	Oct.	25
Nov. 30	Bridge	Circleville, Ohio	Nov.	15
Dec. 3	Bridge	De Funiak Springs, Fla.	Nov.	8
Dec. 15	Bridge	Carthage, Tenn.	Nov.	8
	Advertised, Eng. News, Nov. 8 and 15.			
Dec. 15	Bridge	Newport, Ind.	Nov.	15
	Advertised, Eng. News, Nov. 15.			
Dec. 17	Bridge	Fall River, Mass.	Nov.	15
	Advertised, Eng. News, Nov. 15 to 29.			

BUILDINGS.

Nov. 23	Office building	West Chester, Pa.	Nov. 22
Nov. 26	Buildings	Ottawa, Ont.	Nov. 22
Nov. 26	School	New York, N. Y.	Nov. 22
Nov. 27	Fire-hall	Toronto, Ont.	Nov. 22
Nov. 27	College building	Akron, Ohio	Nov. 8
Nov. 28	Industrial building	Cleveland, Ohio	Nov. 8
Nov. 28	Public building	Edmonton, Alta.	Nov. 8
Nov. 29	Buildings	Fort Ethan Allen, Vt.	Nov. 1
	Advertised, Eng. News, Nov. 1 to 22.		
Dec. 1	Building	Raleigh, N. C.	Nov. 1
Dec. 1	Church	Bandera, Tex.	Nov. 22
Dec. 3	School	New York, N. Y.	Nov. 22
Dec. 3	Leprosy station	Hawaii	Nov. 1
	Advertised, Eng. News, Nov. 1 and 8.		
Dec. 3	Warehouse	Santa Fe, N. Mex.	Nov. 15
Feb. 8	Library	University, N. Dak.	Nov. 15
Dec. 10	Locomotive shops	Moncton, N. B.	Nov. 15
Dec. 10	Dwelling	Baltimore, Md.	Nov. 15
	Advertised, Eng. News, Nov. 15.		
Dec. 10	Shops	Moncton, N. B.	Nov. 22
Dec. 10	Mail-lift	Kansas City, Mo.	Nov. 22
Dec. 11	Elevators	St. Joseph, Mo.	Nov. 22
Dec. 15	Office building	Washington, D. C.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Dec. 13.		
Dec. 18	Brewery	Fernie, B. C.	Nov. 15
Dec. 20	Plans and specifications	Shreveport, La.	Oct. 4
Dec. 20	Court-house	West Liberty, Ky.	Nov. 22

WATER SUPPLY AND IRRIGATION.

Nov. 22	Fountain	New York, N. Y.	Nov. 8
Nov. 24	Pipe line, reservoirs	Grand Junction, Colo.	Nov. 15
Nov. 26	Water system	Des Moines, Iowa	Nov. 15
Dec. 1	Pump well, etc.	Charleston, S. C.	Nov. 15
Dec. 1	Water meters	Norwood, Ohio	Nov. 22
Dec. 3	Water-works	Julesburg, Colo.	Nov. 22
	Advertised, Eng. News, Nov. 22 and 29.		
Dec. 3	Pump	Lewiston, Idaho	Nov. 22
Dec. 4	Aqueduct	New York, N. Y.	Nov. 15
	Advertised, Eng. News, Nov. 15 to 29.		
Dec. 7	Cisterns	Fort St. Philip, La.	Nov. 22
Dec. 10	Wells, pump, etc.	Ft. Bliss, Tex.	Nov. 22
Dec. 11	Canal	Troy, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22 and 29.		
Dec. 15	Excavation	Glendive, Mont.	Nov. 1
	Advertised, Eng. News, Nov. 1 to 29.		
Dec. 15	Structures	Glendive, Mont.	Nov. 8
	Advertised, Eng. News, Nov. 8 to Dec. 6.		
Dec. 20	Sluice gates	Cody, Wyo.	Nov. 15
	Advertised, Eng. News, Nov. 1 to 29.		
Jan. 9 ('07)	Dam, etc.	Mitchell, Neb.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Jan. 3.		
Jan. 23 ('07)	Pipe	New Orleans, La.	Nov. 15
	Advertised, Eng. News, Nov. 15 to Jan. 17.		

SEWERAGE.

Nov. 22	Sewer	New York, N. Y.	Nov. 15
Nov. 26	Sewers	Norwood, Ohio	Nov. 1
Nov. 26	Sewers	San Jose, Cal.	Nov. 8
Nov. 27	Sewers	Washington, D. C.	Nov. 1
	Advertised, Eng. News, Nov. 1 and 8.		
Nov. 27	Sewers	Philadelphia, Pa.	Nov. 15
	Advertised, Eng. News, Nov. 15 and 22.		
Nov. 27	Sewers	Dallas, Tex.	Nov. 22
Nov. 28	Sewers	Indianapolis, Ind.	Nov. 22
Nov. 28	Drains	Alexandria, La.	Nov. 15
Nov. 28	Disposal plant	Baltimore, Md.	Nov. 15
	Advertised, Eng. News, Nov. 15.		
Nov. 28	Sewage pumps	Baltimore, Md.	Nov. 22
Dec. 1	Sewers	Rock Island, Ill.	Nov. 1
Dec. 3	Sewers	Washington, D. C.	Nov. 15
	Advertised, Eng. News, Nov. 15 and 22.		
Dec. 3	Sewers	New York, N. Y.	Nov. 22
Dec. 6	Sewers	Greenville, N. C.	Nov. 15
	Advertised, Eng. News, Nov. 15.		
Dec. 15	Sewers	West Seneca, N. Y.	Nov. 15
	Advertised, Eng. News, Nov. 15 to Dec. 13.		

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

STREETS AND ROADS.

Nov. 22	Park	New York, N. Y.	Nov. 15
Nov. 24	Paving	Newark, Ohio	Nov. 22
Nov. 26	Paving	Harrisburg, Pa.	Nov. 22
Nov. 28	Paving	Montgomery, Ala.	Nov. 8
Nov. 30	Roads	Washington, Pa.	Nov. 22
Dec. 1	Crossing	Williamsport, Pa.	Nov. 1
	Advertised, Eng. News, Nov. 1 and 8.		
Dec. 3	Paving	South Bethlehem, Pa.	Nov. 15
Dec. 3	Sidewalks	Montgomery, Ala.	Nov. 22
Dec. 3	Grading, etc.	New York, N. Y.	Nov. 22
Dec. 4	Pipe line	Camden, N. J.	Nov. 22
	Advertised, Eng. News, Nov. 22 and 29.		
Dec. 7	Paving	Tulsa, Ind. T.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Dec. 6.		
Dec. 8	Paving	Omaha, Neb.	Nov. 22
Dec. 8	Paving	Delaware, Ohio	Nov. 22
Dec. 12	Paving	Newark, N. J.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Dec. 6.		
Dec. 12	Paving	Troy, Ohio	Nov. 8
Dec. 24	Grading	Madisonville, Ohio	Nov. 15

MISCELLANEOUS CONTRACTS.

At once	Rock tunnel	Harrisburg, Pa.	Nov. 22
	Advertised, Eng. News, Nov. 22.		
Nov. 23	Painting, etc.	New York, N. Y.	Nov. 15
Nov. 23	Steel horses for dams	Wheeling, W. Va.	Oct. 25
	Advertised, Eng. News, Oct. 25 to Nov. 15.		
Nov. 24	Wharves	New Orleans, La.	Oct. 25
Nov. 24	Dredging	Boston, Mass.	Nov. 1
Nov. 24	Retaining wall	Philadelphia, Pa.	Nov. 15
Nov. 26	Metallic sheds	Belgium (Foreign)	Nov. 15
Nov. 27	Naval supplies	Washington, D. C.	Nov. 8
Nov. 28	Dredging	New York, N. Y.	Nov. 1
	Advertised, Eng. News, Nov. 1 to 22.		
Nov. 30	Tunnel	Scranton, Pa.	Nov. 15
	Advertised, Eng. News, Nov. 15 and 22.		
Nov. 30	Engineering supplies	Panama	Nov. 15
Dec. 1	Undergrade crossing	Williamsport, Pa.	Nov. 1
	Advertised, Eng. News, Nov. 1 and 8.		
Dec. 1	Garbage reduction	Spain (Foreign)	Oct. 11
	Advertised, Eng. News, Oct. 4 and 11.		
Dec. 4	Naval supplies	Washington, D. C.	Nov. 8
Dec. 4	Naval supplies	Washington, D. C.	Nov. 22
Dec. 10	Caisson, foundation	Philadelphia, Pa.	Nov. 15
	Advertised, Eng. News, Nov. 15 and 22.		
Dec. 11	Railway	Belgium (Foreign)	Nov. 15
Dec. 11	Suction dredges	Panama	Nov. 8
Dec. 11	Levee	New Orleans, La.	Nov. 22
Dec. 11	Naval supplies	Washington, D. C.	Nov. 22
Dec. 12	Ship canal	Panama	Oct. 18
Dec. 12	Reconstructing cribs	Cincinnati, Ohio	Nov. 15
	Advertised, Eng. News, Nov. 15 to Dec. 6.		
Dec. 13	Dredging	Mt. Pulaski, Ill.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Dec. 6.		
Dec. 18	Naval, Supplies	Washington, D. C.	Nov. 22
Dec. 19	Canal work	Albany, N. Y.	Nov. 22
Dec. 19	Steel stand-pipe	Guantanamo, Cuba	Nov. 15
Dec. 19	Telephone materials	Australia (Foreign)	Nov. 15
Dec. 20	Sluice gates	Wyoming	Nov. 1
	Advertised, Eng. News, Nov. 1 to 29.		
Dec. 20	Barges	Vicksburg, Miss.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Dec. 13.		
Dec. 21	Rock removal	New York, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22 to Dec. 13.		
Dec. 22	Steel derrick	Philippine Islands	Nov. 22
	Advertised, Eng. News, Nov. 22 and 29.		
Jan. 9	Monument	Mt. Vernon, Ind.	Nov. 22
Mar. 18 ('07)	Tunnel	New Zealand (Foreign)	Sept. 13
	Advertised, Eng. News, Sept. 13 to Mar. 14.		
Apr. 12 ('07)	Ditches	Brookings, S. Dak.	Oct. 18

CIVIL SERVICE EXAMINATIONS.

Dec. 4	Chief, Water Bureau	Philadelphia, Pa.	Nov. 1
	Advertised, Eng. News, Nov. 1.		
Dec. 5	Aids	Washington, D. C.	Nov. 8
Dec. 5	Arch. & Steel Draftsman	San Francisco, Cal.	Nov. 22
Dec. 12	Hydrographic Surveyor	Cuba	Nov. 22
Dec. 12	Topograph. Draftsman	New York, N. Y.	Nov. 8
	Advertised, Eng. News, Nov. 8 and 15.		
Dec. 15	Tracer	Albany, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22.		
Dec. 15	C. E. Draftsman	Albany, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22.		
Dec. 15	Bridge Designer	Albany, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22.		
Dec. 15	Asst. Civil Engr.	Albany, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22.		
Dec. 15	Arch. Draftsman	Albany, N. Y.	Nov. 22
	Advertised, Eng. News, Nov. 22.		

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARKANSAS.—The A. J. Niemeyer Lumber Co. may build a 17-mile standard-gage railroad in connection with its proposed big mill near Little Rock, Ark. The line would connect with the Fourche River Valley & Indian Territory Railroad. A. J. Niemeyer, St. Louis, Mo., is Pres.

ATCHISON, TOPEKA & SANTA FE.—It is probable that the first construction work to be done on the three new lines the company is planning to build in Oklahoma will be on a line 40 or 50 miles long running east from Woodward. Work will also be started on the line running northwest from Oklahoma City next year.

Contract has been let to A. H. MOORE, of Newton, Kan., for a 30-mile section on the Alston-Selling extension, which will connect with the main line at Alston and run southeast through Moscow, Mutual and Richmond to Selling.

BALTIMORE & OHIO.—Plans for the proposed freight line around Baltimore, Md., to be known as the Patapsco & Susquehanna branch, are being held in abeyance awaiting a court decision in connection with the petition filed by a property owner along the route. The proposed route is from Gorsuch station in Carroll County, through Carroll and Baltimore counties, to the Western Maryland, east of Pikesville; thence under the Reisterstown turnpike by means of a tunnel; thence crossing the Northern Central near Rider station, passing north of Towsontown to a crossing of the Maryland & Pennsylvania near Oakleigh; thence to a connection with the Philadelphia division east of Baltimore at or near Sewall. The line will be about 40 miles long. Most of the grades will be 0.3 per cent. and the maximum 0.5 per cent.

BAUXITE & NORTHERN.—This company has been chartered to build a line four miles in length from the Bauxite mill at Bauxite (Perrysmith post-office) to the St. Louis, Iron Mountain and Southern Railway, connecting with this railroad at a point near where the road crosses Hurricane Creek. The company is capitalized at $75,000. The directors are R. B. Mellon, A. V. Davis, J. R. Gibbons, C. C. Brazil and J. W. Westbrook.

BEAVERTON & WILLSBURG.—Incorporated in Oregon in the interest of the Southern Pacific to build a railroad from Beaverton, on line of the Oregon & California, to Willsburg, East Portland. Capital stock, $75,000. Incorporators: William Crooks, W. R. Litzenburg and H. F. Conner, all of Portland, Ore.

BURRS FERRY, BROWNDEL & CHESTER.—Company has completed surveys from Rockland, Tex., east via Browndel to Burkville, 56 miles. The road has been constructed from Rockland to Aldridge eight miles. Contracts have been placed for 25 miles additional 60-lb. rails, and bids will be asked shortly for grading, bridging, etc. This line is projected from Chester, in Tyler County, Tex., east via Rockland and Browndel to Burrs Ferry on the Sabine River, about 80 miles. It is also proposed to extend line into the timber forests of Louisiana in the direction of Alexandria. John H. Kirby is Pres., Houston, Tex., and P. G. Omohondro is Ch. Eng., Beaumont, Tex. Noted last week.

CANADA.—The Imperial Coal & Coke Co., of Lethbridge, Alta., is having surveys made for a 40-mile railway along the Elk River Valley.

CANADIAN NORTHERN.—Company will extend its line from Toronto, Ont., via Brantford, to Port Dover, for purpose of giving Company a coal port.

CANADIAN PACIFIC.—A press report states that "The C. P. R. has given orders to its engineering department to prepare plans and specifications for lines to duplicate every mile of the Grand Trunk Pacific R. R. from coast to coast."

CHEWAHWAH VALLEY.—Incorporated in Washington to build a railroad from Wason Siding, on the Great Northern, in Chelan County, north 30 miles to a point near Red Mountain in the same county. Capital stock, $1,000,000. Incorporators: H. P. Albers, New York City; W. R. Woodward, Leavenworth, and T. E. Ellis and John S. Jurey, of Seattle, Wash.

CINCINNATI, BLUFFTON & CHICAGO.—John C. Curtis, Gen. Mgr., Pennville, Ind. informs us that contracts will be let early next spring for building its proposed extension from Portland to Huntington, Ind., 23 miles. Capital is ready. Survey is made and right-of-way is being secured. S. H. Bracey is Pres. and D. C. Dunlap is Ch. Engr., both with headquarters at 1606 Tribune Bldg., Chicago.

EVANSVILLE, MT. CARMEL & NORTHERN.—This company, which proposes to build a branch of the Cleveland, Cincinnati, Chicago & St. Louis, from Mt. Carmel, Ill., to Evansville, Ind., has filed articles of incorporation in Illinois. The Illinois charter calls for a line from a point on the Cairo, Evansville & Chicago division of the Cleveland, Cincinnati, Chicago & St. Louis near Mt. Carmel to the Wabash River. Capital stock, $10,000. Incorporators: W. C. Brown, J. Carstensen, New York; C. E. Schaff, G. J. Grammer, W. J. Lynch, Chicago.

FALMOUTH RY.—This company, recently chartered, proposes to build a railroad from Falmouth, Va., to the Potomac River, 25 miles. It is expected to begin construction in about 30 days. Noted on Nov. 8. W. E. Grant is Pres., and A. M. Yonge, Ch. Engr., both with headquarters at 20 South 14th St., Richmond, Va.

FRIO VALLEY R. R.—Company is now surveying its line, but is not yet ready to ask for bids on the construction and equipment. Officers and directors are not yet chosen for the railroad, because no charter has yet been taken out. The railway will be 42 miles long, connecting Leakey, Tex., with either Uvalde, Sabinal or Chatfield, Tex., on the Southern Pacific.

GEORGIA, FLORIDA & ALABAMA.—The route for the proposed extension from Cuthbert to Columbus, Ga., will be run via Lumpkin and Louvale. It is expected that contracts for this extension will be awarded soon. John Pasco is Ch. Engr., Bainbridge, Ga.

GRAND TRUNK.—The Grand Trunk Ry. system has submitted to the Department of Railways and Canals plans for its line between Ottawa and Toronto. This company has taken over the charter of the Kingston, Smith's Falls & Ottawa Railway, which was renewed at the last session of Parliament.

GULF, COLORADO & SANTA FE.—It is probable that this company will build a new line of road from Houston to Winnie, Tex., connecting with the Gulf & Interstate division at the latter point. The new line will be about 60 miles long.

Improvements to cost about $200,000 will be made at Temple, Tex. C. F. W. Felt is Ch. Engr., at Galveston, Tex.

INDIAN CENTRAL.—Edwin D. Chadick, representing this railway company, recently submitted a proposition to the citizens of McAlester, Ind. T., in connection with the proposed construction of this line from Claremore to McAlester. Citizens will pay $50,000 bonus when track is laid between these points and $50,000 additional when the line extends from McAlester to Paris, Tex. Noted fully on Oct. 25.

LAKE SUPERIOR & ARIZONA COPPER.—The L. S. & A. C. Co., Florence, Ariz., will build a railroad from Florence to the Superior mines and will erect a 250-ton smelter at this place. The sum of $1,500,000 has been set aside by the board of directors of the company for the proposed improvements.

MANITOBA & NORTHWESTERN.—The Manitoba & Northwestern R. R. is applying for an extension of time for the completion of its line from Yorkton, Sask., to Shedo. F. F. Busteed, Winnipeg, Man., is interested.

MISSISSIPPI.—The Kaupp Lumber Co. plant, Shubuta, Miss., has been purchased by parties interested in the John A. Cox Lumber Co., of Vincennes, Ind., associated with others. This deal includes the Shubuta & Southwestern Railroad, of which an extension of two miles is proposed. John A. Cox of Vincennes, Ind., is Pres.; Augustus Coburn of Michigan Lumber Co., Indianapolis, Ind., will be Vice-Pres.; S. G. Blalock, Secy. and Mgr., and W. A. Spain of Vincennes, Treas.

NORFOLK & SOUTHERN.—We are officially advised that the matter of building an extension from Edenton, N. C., to Mackey Ferry, 5½ miles, with a trestle across Albemarle Sound, is before the War Department. F. L. Nicholson is Engr. N. W., at Norfolk, Va.

NORTH CAROLINA.—W. L. Clement, Secy. and Treas. of the W. L. Clement Lumber Co., Cheraw, S. C., confirms the report of the purchase of the Middleby Lumber Co.'s property, as noted in issue of Nov. 8, and states that to operate it a railroad about 20 miles long will have to be built. Definite plans are not yet formed and will not be ready for announcement before January 1st.

OKLAHOMA, TEXAS & WESTERN.—A charter has been granted to this company to build a road to run from Clinton, Okla., to Canadian, Tex., a distance of 80 miles, of which 50 miles will be in Oklahoma and 30 miles in Texas. The line has been surveyed from Clinton to Cheyenne. Construction is to begin as soon as arrangements are completed for financing the road. H. D. Cox is Pres., Cheyenne, Okla.; R. B. Converse, Secy. and Treas., Cheyenne; D. D. Fitzgerald, Ch. Engr., 80 Broadway, New York.

PENNSYLVANIA R. R.—On Nov. 14 improvements on the Pittsburg division of the Pennsylvania Railroad, between Altoona and Pittsburg, which will cost about $1,750,000, were authorized by the Board of Directors.

At Greensburg two additional tracks will be added. The improvements there call for cutting out a tunnel 800 ft. long and the construction of overhead bridges for the streets. The improvements will extend for a mile, and will cost about $750,000. Between Sahg Hollow and Conemaugh, a distance of eleven miles, the heavy grades will be cut down and the standard grade of 0.3 per cent. established. This work will cost $1,000,000.

PIGEON RIVER.—Company has been chartered to build the proposed line for the Champion Fiber Co. from Canton, N. C., 12 miles, to the company's works and thence to Pisgah Ridge, 40 miles. Peter G. Thompson of Cincinnati, Ohio, Pres. of the Fiber Co., is the principal stockholder. The others are W. J. Hampton, of Canton, N. C., and C. S. Bryant, of Asheville, N. C. Capital is $200,000.

PORT ARTHUR & HOUSTON SHORT LINE.—Company has made application to the Railroad Commission of Texas for authority to issue bonds in amount of $20,000 a mile on 86 miles of its proposed line extending from Port Arthur, Tex., west via Hamshire, Wallisville and La Porte, to Dumont, Harris County. Surveys have been completed and contracts made for the greater part of the right-of-way, depot and terminal grounds. This line passes through the richest portion of the rice belt of Texas. Its maximum grade will be 0.2 per cent. Steel draw bridges will be required at crossings with Taylor and Cedar Bayous, and the Trinity and San Jacinto Rivers. C. S. Cleaver is Vice-Pres. and H. Falkenberg is Ch. Engr., Port Arthur, Tex.

SAN SABA VALLEY.—W. S. Haywood, Ch. Engr., Jefferson, Tex., states that surveys have been made for this road from Antelope Gap to San Saba, Tex., 20 miles, and that it is expected to begin construction within 60 days. E. Campbell is Pres., and John Kelly is Vice-Pres. and Mgr., with headquarters at San Saba, Tex.

ST. LOUIS & SAN FRANCISCO.—It is said that the Colorado Southern, New Orleans & Pacific Line will be completed between Baton Rouge, La., via De Quincey to Houston, Tex., by April 1, 1907.

TOPEKA SOUTHWESTERN.—This company, which proposes to build a railroad from Topeka to Council Grove, Kan., 60 miles, has elected the following directors: T. J. Anderson, Topeka; T. B. Babst, Dover; George W. Boogs, Topeka; E. J. Curnick, New York City; C. B. Henderson, Alma; C. K. Holliday, Topeka; E. B. Merriam, Topeka; H. E. Richter, Council Grove; F. M. Stahl, Auburn; M. F. Stout, Auburn; R. V. Sears, Bucyrus, Ohio; W. E. Shamleffer, Council Grove; W. L. Taylor, Topeka; J. R. Tomson, Dover; John V. Waugh, Eskridge; W. K. Beach, Keene, and W. H. Melrose, Eskridge. Financial arrangements are said to have been made in New York for building the road, and that the work of locating the line will begin at once.

VANCOUVER, WESTMINSTER & YUKON.—Bids may be asked early in January for the construction of 40 miles of the Vancouver, Westminster & Yukon R. R. northward from Vancouver, B. C. John Hendrie, Vancouver is Pres.

VIRGINIA AIR LINE.—At a recent meeting of the stockholders of this company at Charlottesville, Va., T. O. Troy, of Amherst, Va., was elected president. The road will be built from a point on the James River division of the Chesapeake and Ohio railway, near Bremo Bluff, to a point on the main line of the Chesapeake and Ohio, near Lindsey's. It will be about 30 miles in length, extending through Fluvanna and parts of Albemarle and Louisa Counties.

WASHINGTON, PATUXENT RIVER & DRUM POINT.—Company has been incorporated in Maryland to build a standard-gage, doubletrack line from a connection with the Chesapeake Beach Railway, probably near Pindell Station, to Drum Point and Solomon's Island, about 30 miles. Preliminary surveys are being made. Wells & Wells, Hyattsville, Md., Attorneys, represent the company. C. A. M. Wells is reported as saying that the plans are not sufficiently developed to announce the names of the officers and those most prominent in the Company.

WAYCROSS, BAXLEY & VIDALIA.—Incorporation is to be asked for in Georgia by C. W. Dean, of Baxley; J. S. Bailey, W. H. Buchanan, J. T. Myers, of Waycross, and others for a company to build a line from Waycross, Ga., north to Vidalia, about 65 miles. It is said that funds have been secured to complete the road for half of the proposed distance.

WESTERN & GULF.—We are officially informed that company is securing its right-of-way for the projected line from Hawkinsville to Americus and Dawson, Ga., 85 miles. Surveys are under way and contracts will be let early next year. Crawford Wheatley is Pres. and S. A. Pruit is Secy., at Americus. G. D. Allen is Engr., at Cusseta, Ga. Noted on Oct. 11.

WESTERN PACIFIC.—The BAXTER, STRAW & STORRS CONSTRUCTION CO., of Salt Lake City, Utah, has been awarded the contract for building 50 miles of this road through the Sierra Nevada mountains in Nevada. Tracklaying on the line from Salt Lake City west has been completed to the edge of the Great American desert and the rails are being put down at the rate of a mile a day, it is said.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—John A. Jones, Ch. Engr., of the Augusta, Oakland & Waterville St. Ry. Co., Lewiston, Me., advises us that this company will build an electric railway 18 miles long from Augusta through Sydney to Oakland, connecting with the Waterville & Oakland St. Ry. Contracts will be let next spring. Survey has been made and capital and right-of-way partly secured. Noted on Sept. 27.

NIAGARA FALLS, N. Y.—Bids received on Nov. 16, by Edward H. Perry, Supt., Niagara Falls, for the construction work of a new station and the reconstruction of the Inclined Railway at the N. Y. State Reservation, Niagara Falls, have been rejected, being in excess of fund available. One bid was received for this work on Oct. 6. See issue of Oct. 25. The bids received on Nov. 16 were as follows: Wentworth McMillan & Co., of this city, $35,640, and L. C. Wille, of Lockport, $37,636. Inasmuch as the appropriation for the work is but $25,000, both bids were rejected. A few months ago a similar effort was made to secure bids. But one proposal was received and as this was $10,000 in excess of the appropriation, it was rejected. Since bids were called for in October the plans have been revised, but the contractors seem to look upon the work as hazardous. It is believed that it will cost the State $40,000 to reconstruct the railway, and the Legislature will be asked for an additional appropriation of $15,000 or more. The incline is not in the best of condition at the present time and the Commissioners have instructed Superintendent E. H. Perry to operate the railway only when in his judgment it is safe to do so. The railway has been condemned by both State and local engineers.

NEW YORK, N. Y.—The Board of Railroad Commissioners has granted a certificate of necessity to the Fort George Street Railway Co., which proposes to build a double-track electric road from the Dyckman St. station of the Rapid Transit subway railroad along St. Nicholas Ave. to 193d St., thence single-track along St. Nicholas Ave. to 190th St., along 190th St. to Audubon Ave., to 191st St., thence double track along Audubon Ave. to 193d St., to its intersection with St. Nicholas Ave. The total length is 4.5 miles.

BUFFALO, N. Y.—The Board of Railroad Commissioners has granted to the Frontier Electric Railway Co. a certificate of necessity to build a high-speed electric railroad between Buffalo and Niagara Falls. The Frontier Ry. is a subsidiary corporation of the International Railway Co. [illegible] proposes to construct a line to Niagara Falls on its own right-of-way. The route will be over the present Lockport line as far as Tonawanda and over a private right-of-way from there.

George A. Ricker, Engr., 702 [illegible] Sq., who located the line, states that [illegible] will cost $2,300,000. It is to be built [illegible] 1907. It will be double-track. The Inter[illegible] will then have four tracks of electric railroad between Buffalo and Niagara Falls [illegible] the time between the two cities can be reduced materially. The new line will [illegible] freight. T. W. Wilson is Gen. Mgr. of the I. Ry. Co.

OLEAN, N. Y.—The Olean [illegible] Co. and the Bradford St. R. R. Co. [illegible] filed with the Secretary of State articles of consolidation under the name of the Western New York & Pennsylvania Traction Co. The capital is $2,000,000 and the directors include Wilson R. Page, of Olean; [illegible] B. Mayer, William F. Sheehan, Steph[illegible] Peabody and John T. Borne, of New York, and Cord Meyer, of Great Neck (L. I.), N. Y.

HUNTINGTON (L. I.), N.Y.—The Board of Supervisors of Nassau County on [illegible] 13, granted a franchise to the H[illegible]ngton Railroad Co. to build its electric [illegible] over that section of the proposed route in the town of Oyster Bay from the Suffolk County line on Conklin St., Farmingdale, [illegible]wardly over Conklin St. to the intersection of Main St., thence southwardly over Main St. to the Suffolk County line. The franchise is granted for a term of 50 years free of cost, with a privilege of renewal for 50 years more at the expiration of the above named period, at the rate of $5 per year for every 100 ft. of track with an increase every 25 years thereafter, the limit not to exceed 2% of the cost of construction of the line. Noted on Nov. 1.

NORFOLK, VA.—The Miniature R. R. Co. will require the following materials: Four to ten miles of 12-lbs. to the yard rails; four to ten complete stations; five to ten 15-in. gage locomotives. The Miniature Railroad Co., C. M. Barnett, Treas.

CHARLESTON, S. C.—The South Carolina Public Service Corporation proposes to build a line from Charleston to Columbia, S. C., and from Augusta, Ga., to Orangeburg, S. C. Survey is being made. C. R. Van Kiten, 456 East 16th St., Brooklyn, N. Y., is interested. A. T. Jones and J. J. Timmes, of Columbia, also are interested in the project.

LEXINGTON, KY.—The Lexington & Interurban Ry. Co. probably will build two lines: from Lexington to Richmond, Ky., and from Lexington to Winchester, Ky. Louis des Cognets is Vice-Pres., Lexington.

DELAWARE, OHIO.—William M. Galbraith, Pres. of the Columbus, Magnetic Springs & Northern Ry. Co., 1059 Frick Annex, Pittsburg, Pa., advises us that this company proposes to build 18 miles of new line and to straighten and reballast the twelve-mile Delaware & Magnetic Springs Ry. The line is to extend from Delaware through Magnetic Springs, Richwood and Essex to Larue. Contract has been let. It is planned to have cars running to Richwood by Jan. 1, 1907. The Columbus, Magnetic Springs & Delaware Interurban Railway Co. was recently incorporated with $400,000 capital. J. R. Ross is Ch. Engr., Magnetic Springs, Ohio.

FINDLAY, OHIO.—L. W. Meeker, 801 New Hayden Bldg., Columbus, advises us that it is proposed to build an electric line from Findlay southeast, through Mt. Blanchard, Forest, Marseilles and Cochranton, to Marion, 45 miles. The railway will be built by the Findlay-Marion Ry. & Light Co. or as an extension of another line. Surveys are made and right-of-way secured. R. P. Hankey is Pres., 801 New Hayden Bldg.

LANCASTER, OHIO.—Philip R. Peters, Edward Delancy, McClellan Matens, Louis J. Snyder and Philip Rising, of Columbus, have incorporated the Lancaster Traction & Power Co., of Lancaster, Fairfield County, Ohio, with a capital stock of $400,000, of which $200,000 is 6% non-cumulative preferred. The new company will take over the existing street railway, lighting and power plants in Lancaster, and also the traction lines running from Lancaster to the Boys' Industrial School. Interested in the companies are R. E. Sheldon and E. K. Stewart of the Columbus Railway & Light Companies, and Cincinnati and Philadelphia men.

GRAND RAPIDS, MICH.—The Battle Creek & Grand Rapids Inland Lakes Traction Co. is negotiating with the Michigan Central Railroad Co. for the use of the old Detroit, Toledo & Milwaukee Railroad from Gull Lake to Battle Creek, thus giving a track in the city of Battle Creek. Right-of-way from Gull Lake to Grand Rapids is practically all secured, and, if arrangements are made with the Michigan Central Co., the entire right-of-way will be secured from Grand Rapids to Battle Creek, including the city line. Harlan K. Whitney is Ch. Engr., Ward Block, Battle Creek.

DETROIT, MICH.—The contract for grading the Jackson, Ann Arbor & Detroit Electric Railway from Oakwood to Dearborn has been let to SHOULTERS, ALLERDYCE & CO., of Detroit.

GREENVILLE, MICH.—The Grand Rapids Electric Railway Co., which has surveyed a line of railway from Grand Rapids to Greenville, Mount Pleasant and Alpena, passing through Langston, Entrican and Six Lakes, in Montcalm County, has filed in Stanton and in different counties along its right-of-way, a trust deed to the Cleveland Trust Co. George W. Doane is Ch. Engr., at Gladwin, Mich.

EAST ST. LOUIS, ILL.—The recently incorporated East St. Louis, Columbia & Waterloo Ry. Co. is now securing its right-of-way. It will build a 25-mile line from East St. Louis to Waterloo, via Columbia. Edward F. Schoening, Columbia, Ill., is Pres. Survey has been run.

KENOSHA, WIS.—Application has been made to the City Council for a franchise for the Chicago, Kenosha, Milwaukee & Lake Geneva Co. The company asks for a 50-year grant. It asks specifically for the right to connect with interurban roads at the north or south limits and permission for these roads to run cars over the streets of Kenosha. The ordinance offers to pave large portions of the streets passed over; to build a bridge of steel or concrete, and to pay for all excavations for street paving.

DES MOINES, IOWA.—C. W. Baker, Pres. of the American Electric R. R. Co., Box 470, Des Moines, advises us that contracts for building the company's line will be let about next April. The line will run from Des Moines to Council Bluffs, about 134 miles in length. Survey is under way. Right-of-way is partly secured. Details were fully given on Oct. 25.

FAIRFIELD, IOWA.—We are officially informed that the Iowa & Missouri Traction & Power Co. will let contracts at once for construction of its line from Fairfield, Iowa, to Memphis, Mo., about 52 miles long. Right-of-way and capital are ready and survey is made. Harrison Blacklege is Pres. and J. W. Andrews is Ch. Engr., both at Keokauqua, Iowa.

CHICKASHA, IND. T.—The Chickasha Railway & Electric Co. has been chartered with a capital of $100,000. Scott Jones, of Chickasha, is Pres.; W. T. Colsen is Vice-Pres.; Alger Melton is Secy., and C. L. Greer is Treas. These officers, with D. L. Strong, constitute the board of directors.

LAWTON, OKLA.—H. A. Lloyd, an incorporator of the Lawton Rapid Transit Co., writes us that contracts for building its line will not be let until next year. Right-of-way has been obtained and surveys made. As noted in issue of Oct. 11, the company was chartered with capital of $1,000,000 in October.

ST. JOSEPH, MO.—The St. Joseph Belt & Interurban Railway Co. has been incorporated in Missouri. Capital stock, $1,500,000. It is organized for the purpose of constructing and operating a double-track railway from St. Joseph, through the counties of Buchanan and Andrew to Savannah, the county seat of Andrew County. The length of the road will be 25 miles. The board of directors is as follows: John Townsend, D. E. Heaton, Louis Huggins, D. B. Bartlett, J. S. Logan, J. H. McCord, J. A. Duncan, Robert Faucett, J. J. Peters, S. S. Brown, J. W. Brockett and J. E. Dolman, all of St. Joseph.

WAXAHACHIE, TEX.—The Central Texas Traction Co., of Dallas, has been granted a franchise to build, maintain and operate an interurban railway system over the streets of Waxahachie. The company has 90 days from the passage of the ordinance to accept it. A forfeiture clause requires the road to be completed within two years after the acceptance of the ordinance. J. F. Strickland, of Dallas, is president of the company. It is the purpose of the company to build an interurban line from Dallas to Waxahachie and thence to Ennis. Surveyors are now making the first survey and are in the neighborhood of Lancaster. It is also understood that Stone & Webster, of Boston, Mass., are having a survey made from Dallas to Waxahachie. They probably will ask for a franchise at an early date.

WEST SEATTLE, WASH.—An ordinance has been introduced in the City Council of West Seattle covering the sale of the municipal street railway to the Seattle Electric Co. and granting the latter company the right-of-way over the streets that are at present traversed by this railway. This will give the company all the rights-of-way it has asked for. The ordinance has been referred to a committee of the whole, and will be passed as soon as the Seattle Electric Co. expresses its desire to pay the stipulated sum of $30,000. J. B. Lukes is Gen. Supt.

SPOKANE, WASH.—ESLICK & HARTNETT, of this city, have been awarded contract for building the Spokane Interurban Ry. Co.'s proposed line, from Hayford to Cheney, ten miles. Negotiations are under way, it is said, for the transfer by the Spokane Interurban in the near future to the Washington Water Power Co. of its interests, including right-of-way, franchise and everything else acquired by the new line. The two companies have been closely in touch all the time and at present arrangements are effective whereby the Spokane Interurban will use the Washington Water Power terminals. Among the business men back of the new road are H. L. Bleecker, Secy. of the Washington Water Power Co., and C. P. Lund, of the firm of Hamblen, Lung & Gilbert, Attorneys.

PORTLAND, ORE.—A press report states that "E. P. Clark, Pres. of the Los Angeles Pacific Co., with a number of associates in Portland and Los Angeles, propose to build a railroad from Portland to a point nearest accessible to the summit of Mount Hood, and to develop about 60,000 HP. from Sandy River, which has its source in Zigzag Glacier and the watershed comprising 500 square miles in that region. Articles of incorporation with a capital stock of $5,000,000, to promote the enterprise have just been filed by the Mount Hood Railway & Power Co. The incorporators are: E. P. Clark, R. T. Linney, S. B. Cobb and C. W. Miller. Plans and estimates for the power development have been made. The principal power site will be near Bull Run post-office. By means of canals the builders will secure a head of 200 ft. and 300 ft. at this and other sites on the Sandy River, where they will be able to develop ultimately, if need be, more than 100,000 HP. The original Mount Hood Electric Co. was incorporated in August, 1904, by Edwin P. Whitney, C. E. Miller and a number of associates."

PORTLAND, ORE.—C. M. Clark, Bullitt Bldg., Philadelphia, and associates are arranging the final details of the $30,000,000 merger which was formed some time ago, and which controls all the large electrical interests of Portland and the Willamette Valley, under the name of the Portland Railway, Light & Power Co. The following interests, formerly individual, after the merger has been finally completed, will be consolidated into the new company: Portland General Electric Co., Portland Railway Co., Oregon Water Power & Railway Co., Citizens' Light & Traction Co., of Salem, Vancouver Electric Light & Power Co., and the Union Light & Power Co., which supplies light and power for Silverton, Mount Angel and Woodburn. By Dec. 1 the new company expects to be supplying Portland with power from its new Cazadero hydro-electric plant. The three units being installed will have a capacity of 15,000 HP. and two more 5,000-HP. units will be added when needed. The new transmission line to Portland is now being erected. Mr. Clark is Pres. of the East St. Louis & Suburban Co., East St. Louis & Suburban Ry., and the Grand Rapids Ry. Co.

PORTLAND, ORE.—The Cowlitz Valley Railroad & Power Co. has been incorporated in Seattle to build an electric railway from some point along the Lower Columbia River, probably Kalama, to the headwaters of the Cowlitz, and later a track from Portland to Puget Sound. Articles of incorporation specify that the line will be constructed between Portland and Seattle. H. H. Riddel, Chamber of Commerce Bldg., Portland, is an incorporator. The others are C. W. Riddel, Cascade Locks; C. C. Brown, Castle Rock; J. R. Deahl and Carl Mueller, Chicago. The new road will be about 100 miles in length and will be standard gage.

SAN BERNARDINO, CAL.—The City Council has sold to the San Bernardino Valley Traction Co. for $500 a franchise for double-tracking its system through this city. The sale of the franchise will mark an immediate extension of the system to Riverside and Rialto to connect with the Dodge track system projected from Los Angeles by H. E. Huntington. W. H. Smith is Gen. Mgr. and Pur. Agent.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN CONN.—The United Illuminating Co. will place its wires underground in the business section of this city. Estimated cost, $500,000. C. L. Clock is Ch. Engr.

BERGEN, N. Y.—The Genesee County Electric Light, Power & Gas Co., of Batavia, has been granted a franchise to construct and operate a plant in this city.

EAST SYRACUSE, N. Y.—It is reported that a proposition will be submitted at the village election in March for the village to erect a municipal lighting plant.

ORANGE, N. J.—The following contracts have been awarded by the Common Council to the CROCKER-WHEELER ELECTRIC CO. for alternating-current generators, switchboards and arc lamps, at $33,047; the WESTERN ELECTRIC CO., poles and wire, at $17,400.

PATERSON, N. J.—The Newark "News" states that "the voters of Paterson, Elizabeth, Camden and Woodbury, by overwhelming majorities, decided at the recent election in favor of municipal ownership and operation of electric lighting plants. Paterson, at the same time, went on record for a city-owned water plant. The vote for the lighting plant in the four cities was significant of the public feeling on the subject. In Paterson the vote was 8,140 for to 1,776 against; in Elizabeth, 3,042 for to 1,182 against; in Camden, 4,452 for to 4,012 against; and in Woodbury the majority 'for' was overwhelming."

ASHLEY (Wilkes-Barre post-office), PA.—GEORGE W. BEARD & CO. have been awarded the contract to build a large power-house here for the Central R. R. of New Jersey. It is to be 80 × 100 ft., of brick and concrete. C. W. Huntington, of Jersey City, is Gen. Supt.

TAMAQUA, PA.—The Philadelphia & Reading Railroad Co. has completed plans for an electric light plant to be constructed here, to light its yards and other property, and also furnish electricity to operate the machines in its shops. J. E. Tuck is Div. Supt.

BALTIMORE, MD.—Bids are asked by the Crown Cork & Seal Co., Guilford Ave. and Lanvale St., for the erection of a 1-story brick and steel power-house.

ANNAPOLIS, MD.—The Secretary of the Navy has awarded contract for construction of foundations and concrete work for the power-house at the Naval Academy, Annapolis, Md., to the BALTIMORE FERRO-CONCRETE CO., of Baltimore, Md., at its bid of $54,930. Bids were opened Oct. 17, 1906.

HAGERSTOWN, MD.—The Hagerstown Spoke & Bending Co. will install an electric light plant at its factory with a capacity of about 250 lights.

RADFORD, VA.—The Vaughan Construction Co., Vaughan Bldg., Roanoke, Va., is contemplating the purchase of the plant of the Radford Water-Power Co., and extensive improvements are planned.

FAYETTEVILLE, N. C.—The Cape Fear Power Co., of Fayetteville, may soon commence work upon the alteration and completion of its large power plant, at Buckhorn Falls. Mr. Maxwell, who was one of the receivers until the recent sale, will have charge of the work, which will cost about $200,000. The property was purchased at auction by S. Z. Mitchel last month for W. C. Humstone, representing the bondholders.

GILKEY, N. C.—C. J. Huss, John H. McDowell and J. A. Glenn, all of Gastonia, N. C., have purchased the water-power on Cove Creek six miles from Gilkey, which will be developed. It is estimated that about 1,500 HP. can be obtained. Options have also been secured on water-power on Cedar and Cove Creeks which can be developed to furnish 6,000 HP. A charter has been applied for, for the Western North Carolina Power Co., to control and develop the properties.

LAKE CITY, S. C.—The town is considering the establishment of an acetylene-gas plant for lighting its streets.

VIDALIA, GA.—The city has voted affirmatively for issuing $9,000 of bonds for an electric light plant.

ROME, GA.—Atilla Cox, Jr., and S. S. Busch, of Louisville, Ky., have purchased the City Electric Ry. Co., including electric light and power plant. It is estimated that about $100,000 will be spent in improvements and building a new power plant.

BRUNSWICK, GA.—City is reported as considering the purchase of local water-works and electric light plant.

BOWEN & THOMAS have contract to erect power-house at the terminals of the Atlanta, Birmingham & Atlantic Railroad. The contract was let by the Fore River Shipbuilding Co., Quincy, Mass., which has the contract for building terminals. Estimated cost, $35,000.

GADSDEN, ALA.—The Little River Power Co. has been incorporated here with a capital of $100,000 by R. A. Mitchell, Alabama City; H. T. Henderson, Durango, Colo.; O. R. Goldman, Gadsden; H. W. Sexton, Anniston, and F. W. Mitchell, Gadsden. The company is to develop electric power on Little River, near Balch, Ala., to be used for lighting, heating and power.

FRANKLIN, LA.—It is reported that the municipal electric light plant to be erected here will cost from $15,000 to $20,000.

FRANKFORT, KY.—JOSEPH WILLIAMS & CO. have been awarded the contract by the State Prison Commission for the installation of an electric power plant at the State Penitentiary.

MURRAY, KY.—It is reported that the city is considering the construction of a water-works and electric light plant.

SOUTH BEND, IND.—Plans are being prepared by the Northern Indiana Railway Co. for the erection of a large power plant in this city. M. P. Reed is Pur. Agt.

MATTOON, ILL.—The following contracts have been awarded for rebuilding the gas works in this city: For the new brickwork contract was awarded to HANS HENRICHS for $3,100, and a Denver firm was awarded the contract for installing the bench, at a cost of $7,000. The total improvements will cost about $12,000, including some machinery.

MILWAUKEE, WIS.—The firm of Kroeger Bros. will erect on Second Ave. a large warehouse, heating and lighting plant, at a cost of $75,000.

DES MOINES, IOWA.—It is reported that an electric light and power station will be erected at the fair grounds, at a cost of $5,000. G. W. Bissell, of Ames, is Engr.

MINNEAPOLIS, MINN.—The Minneapolis General Electric Co. will enlarge its plant, at a cost of $43,000. A. W. Leonard is Mgr.

TOPEKA, KAN.—W. G. Brill, of Chicago, has been selected as consulting engineer for rebuilding the electric light plant here.

OMAHA, NEB.—The Omaha & Council Bluffs Street Ry. Co. is considering plans for the construction of a new power plant. F. A. Tucker is Pur. Agt.

RAPID CITY, S. DAK.—The Rapid River Light, Power & Transit Co. will develop the water power of Rapid Creek at a probable cost of $250,000.

RAWLINS, WYO.—The Rawlins Electric Light & Fuel Co. is contemplating the reconstruction of its system in this city. A new power-house is to be erected and new machinery and boilers are to be installed. H. L. Williams is Mgr. and Ch. Engr.

HOUSTON, TEX.—The Houston Light & Power Co. will enlarge its building, remodel its plant and add new machinery, at an estimated cost of $125,000.

CHICKASHA, IND. T.—It is reported that the Chickasha Gas Co. will construct an electric light plant here, at a cost of $40,000. C. E. Ross is Engr.

DENVER, COLO.—The Central Colorado Power Co. has been incorporated with a capital of $22,500,000. The object of the company is to utilize the water power of the State, chiefly on the Rio Grande River, for electric power purposes. L. E. Curtis and Henry Hine are interested.

JULESBURG, COLO.—Bids are asked until 7 p. m., Dec. 3, by A. F. Perrier, Town Clk., for the construction of an electric light plant. (Advertised, Engineering News.)

OREGON.—We are officially advised that "the Roberts & Abbott Co., Schofield Bldg., Cleveland, Ohio, is making a minute examination of a large water power proposition located at what is known as the Ox Bow of the Snake River in Eastern Oregon. At this point the Snake River makes a loop about 2¼ miles long, the distance across the loop amounting to but a few hundred feet at the narrowest point. It is proposed to erect a dam at the narrow point about 30 ft. high and put a tunnel through the neck of the loop, thus getting 22 ft. additional fall, making a total drop of 33 ft. W. H. Abbott, of the Roberts & Abbott Co., is now in Oregon checking up the measurements and determining the minimum flow of water. It is claimed that in the driest years there will be a flow at extreme low water of 5,000 second feet, which would give a minimum power above 25,000 HP. The feasibility of transmitting this 140 miles to the various mines in the Seven Devils and Cornucopia country and the towers of Huntington, Weiser, Fayette, Ontario and Boise, is being considered. This project would be one of the largest and longest transmissions of electric energy in the world."

RICHFIELD, UTAH.—The Richfield Electric Light & Power Co. has been incorporated, with Thomas Brown as Pres.

WILLARD, UTAH.—Edward Nelson has applied for water power for a 1,500-HP. electric plant to be erected here.

HEBER, UTAH.—Francis M. Lyman, Jr., has filed application for 15 second feet of the water of the Provo River. The water to be used in creating energy to be used for light, heat and power for Park City, Heber and Salt Lake City. 5,000 HP. will be generated.

ST. JOHN, N. B.—Electric power is to be supplied to St. John industrial establishments by the Grand Falls Power Co., by means of a transmission line 165 miles long. R. W. Conger, at St. John, N. B., is the company's representative. 10,000 HP. will be produced at first. A duplicate transmission system will be used. The line will run from Grand Falls to Fredricton, and thence to St. John, with several branch lines. The surveying of the line will begin at once, and the tunneling at Grand Falls early next spring.

HAMILTON, ONT.—THE CANADIAN WHITE CO. has been awarded the contract to erect the terminal station for the Hamilton Cataract Power, Light & Traction Co. Estimated cost, $250,000. J. B. Griffith is Pur. Agt.

MINNEDOSA, MAN.—Money has been subscribed and the Minnedosa Power Co. formed for the purpose of developing the electrical energy in the Little Saskatchewan River here. E. W. Pearson, J. S. Armitage or G. A. Grierson, all of Minnedosa, are all interested.

PRINCE ALBERT, SASK.—C. P. Mitchell, Engineer for the Ontario Power Co., Toronto, will report upon the feasibility of hydro-electric development on the Saskatchewan River near here.

MOOSE JAW, SASK.—The City Council has decided to enlarge the electrical plant. G. V. Reid is Supt.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—Bids were received Nov. 12, by the County Commissioners, for constructing the Danvers River Bridge, at Salem. The New England Construction Co., 332 Exchange Bldg., Boston, bid $48,940 for draw; and W. L. Miller, 19 Milk St., Boston, $107,843 for the complete structure. George F. Swain is Engr., 435 Marlboro St., Boston.

FALL RIVER, MASS.—Specifications and bidding sheet for constructing proposed bridge over Taunton Great River, between Fall River and Somerset, as advertised, are on file at the office of the Engineering News, New York. Bids are asked until Dec. 17.

ALBANY, N. Y.—See "Canal Work, Albany, N. Y.," under Miscellaneous Contracts.

SYRACUSE, N. Y.—The contract for the construction of a steel bridge over the Delaware, Lackawanna & Western Railroad tracks to take the place of the present structure at Stiles Crossing on the extension of the Syracuse, Lakeshore & Northern Railroad from Long Branch to Fulton, has been awarded to the AMERICAN BRIDGE CO., 42 Broadway, New York. The contract calls for the completion of the work May 1 next.

TRENTON, N. J.—The Delaware & Raritan Canal Co. intends to construct a double width bridge over the canal at Lalor St. C. C. Hanen is City Engr.

PHILADELPHIA, PA.—It is reported that in connection with elevating the tracks of the Philadelphia & Reading Ry., on Ninth St., the bridge over Broad St. at Logan Station will be reconstructed. Estimated cost about $100,000. William Hunter, Philadelphia, is Ch. Engr.

WASHINGTON, D. C.—The Commissioners of the District of Columbia have ordered that a new roadway be laid on the Aqueduct Bridge, at a cost of about $5,000.

PETERSBURG, VA.—It is reported that the City Council has passed a resolution providing for the construction of a concrete bridge over Appomatox River, at a cost of $7,500.

NORFOLK, VA.—Contracts for construction of a bridge at the foot of Coley Ave., and for rebuilding a bridge over Tanner's Creek, along the line of the Jamestown Boulevard, will be let at once. These will cost between $17,000 and $20,000. Both of the bridges will be of wood.

NORFOLK, VA.—See under Streets and Roads.

FORT MILL, S. C.—Lancaster and York Counties are arranging for the construction of a steel bridge over Sugar Creek, two miles distant, connecting the two counties. It is proposed to construct a bridge 400 ft. long with approaches, and two steel spans of 75 ft. each will be used in crossing the creek proper. Offers for material will be considered by M. C. Gardner, Supt. of Lancaster County, Lancaster, S. C.

GREENVILLE, S. C.—The Greenville Traction Co. has presented a proposition to the City in regard to building a bridge across Reedy River at Main St. James H. Daws, 112 North Broad St., Philadelphia, Pa., is Mgr.

ATLANTA, GA.—It is reported that contracts for constructing two bridges at Power's Ferry and at Johnson's Ferry, have been awarded to AUSTIN BROS., of Atlanta, at $15,000, and to ROANOKE BRIDGE CO., of Roanoke, Va., at $12,850, respectively.

CULLMAN, ALA.—We are informed that bids will be asked in a few days for a steel bridge. Robert R. Pollak is County Surv., Cullman.

BROOKWOOD, ALA.—It is reported that the Southern Ry. will construct a concrete arch bridge at Brookwood. D. W. Lum, Washington, D. C., is Ch. Engr.

NASHVILLE, TENN.—The citizens have voted a bond issue of $800,000, for construction of bridges at Sparkman and Jefferson Sts. P. A. Shelton is Clk. County Court.

HENDERSON, TENN.—The City of Henderson has awarded the contract for building an overhead bridge across the Mobile & Ohio R. R. to JOHN D. KEITH and E. A. MOFFITT, of Jackson.

TOLEDO, OHIO.—Frank I. Consaul, Ch. Engr. Bd. Pub. Service, is preparing plans for a bridge over the canal at South St., authorized recently by the Common Council. Estimated cost, $20,000.

BRAZIL, IND.—The contract for construction of the steel bridge over Eel River, south of Center Point, has been awarded to the VINCENNES BRIDGE CO. by the County Commissioners at $11,795. This was the only bid submitted below the estimate.

INGERSOLL, MICH.—The Town of Ingersoll, Midland County, has voted to build a bridge across the Tittibawassee River, at a cost of $10,000.

MACKINAW, ILL.—Contract for constructing bridge over the Mackinaw River at this town has been let to BURNHAM & INES, of Bloomington.

EAST ST. LOUIS, ILL.—The viaduct crossing Cahokia Creek, at Broadway, will be reconstructed at a cost of about $50,000. J W. Crocken is City Engr.

PEORIA, ILL.—We are officially advised that on Nov. 5, the SCHERZER ROLLING LIFT BRIDGE CO., Monadnock Bldg., Chicago, was awarded contract, at $49,700, for constructing bridge over the Illinois River at Peoria. The Chicago Bridge & Iron Works, 105th and Throop Sts., Chicago, bid $61,330. D. H. Roberts is Asst. City Engr.

SHEBOYGAN, WIS.—Plans and estimates are wanted until Dec. 1, for a bridge 400 ft. long, to be built at Pennsylvania Ave. C. M. Boley is City Engr.

TOPEKA, KAN.—Plans for the Sixth Ave. viaduct are being prepared in the office of the City Engineer, James F. McCabe.

RANCHER, MONT.—It has been decided to construct a 700-ft. bridge across Yellowstone River, at Rancher. Robert Cole is Secy. Bd. Comrs. Rosebud County.

LAMPASES, TEX.—The County has voted $10,000 of bonds to construct two iron bridges across the Lampases River.

AUSTIN, TEX.—The County Commissioners have decided to erect a $10,000 bridge across the Onion Creek on the Creedmore Road, at Doyle's Crossing.

DEXTER, N. MEX.—Bids are asked until Dec. 3, by the Board County Commissioners, at Roswell, N. Mex., for constructing a highway bridge to be 300, 312 or 400 ft. long, of metal on steel, concrete filled cylinders, near Dexter. W. W. Atkinson is Chn.

SPOKANE, WASH.—Work will be started at once on the surveys for a bridge across the Spokane River, north of Fort Wright, for new railroad which is being built between Spokane and Puget Sound. The bridge, as planned at present, will be 8,000 ft. long and 280 ft. high, and will cost about $700,000.

The Northern Pacific Ry. Co. will build a steel bridge 1,500 ft. in length and 280 ft. high across Lawyer's Canyon, southeast of Spokane. The cost is $250,000. It will be ready for traffic next spring. C. Simensen, Spokane, is Supt of Bridges and Bldgs.; W. L. Darling, St. Paul, Minn., is Ch. Engr.

SAN JOSE, CAL.—We are officially advised that the following bids were received for constructing reinforced concrete bridge on concrete foundation, over Carneadora Creek: John Doyle, $13,957; John W. Williams, $13,600; John M. Reynolds, $12,300. J. G. McMillan, San Jose, is Des. Engr.; F. A. Schiling is Deputy Clk.

SURF, CAL.—The contract for construction of a bridge across the Santa Ynez River, near Surf, has been let to HYDE, HARGES & Co., at $4,890.

PARKER, ARIZ.—Engineers are sounding the Colorado River in the vicinity of Parker, seeking a foundation for the bridge which the Atchison, Topeka & Santa Fe Ry. Co.'s new line, known as the Arizona & California Ry., will construct across the stream. It is reported that the company will expend about $1,000,000 for this bridge.

PHOENIX, ARIZ.—The Maricona, Phoenix & Salt River Valley R. R. will build a girder deck span steel bridge across the Gila River. The bridge will be 1,200 ft. long, consisting of 17 spans of about 70 ft. each; entire length of bridge and approaches will be 4,400 ft. Estimated cost, $113,856.

FORT FRANCIS, ONT.—We are officially advised that it has not yet been determined when bids will be asked by the Duluth, Rainy River and Winnipeg Ry. Co., for constructing bridge to be constructed over the Rainy River at Pitcher's Point, as noted in Engineering News, Nov. 1. H. T. Hare is Ch. Engr.

BASTICAN, QUE.—A new bridge is to be built at Bastican, at a cost of $30,000. It will be of steel and concrete.

EDMONTON, ALTA.—The Canadian Pacific Ry. Co. has decided to build a bridge across the Saskatchewan River, from Strathcona to Edmonton, to include trainways and driveways. It will be a mile long, and will cost about $1,000,000.

SASKATOON, SASK.—JOHN GUNN & SONS, of Winnipeg, have been awarded the contract, at $90,000, for the superstructure of the Grand Trunk Pacific Ry. bridge over the Saskatchewan River at Saskatoon. B. B. Kelliher, is Ch. Engr., Montreal, Que.

The Canadian Pacific Ry. Co. will let the contract shortly for the substructure for a permanent concrete steel bridge at Saskatoon. The new structure will be ready for use, it is stated, by May, 1907. Preparations will be made for heating the concrete and putting frost protection in the piers.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—Bids were opened Nov. 19, at the office of James Knox Taylor, Supervis. Arch. of the Treasury, Washington, D. C., for an electric passenger elevator in the post-office at Burlington, Vt. Bids were as follows: Otis Elevator Co., New York, $5,780; time, Sept. 28, 1907. Marine Engine & Machine Co., New York, $6,850; Feb. 20, 1907.

BOSTON, MASS.—Bids are asked until 3.30 p. m., Nov. 26, for the erection of a sun parlor at the Boston Insane Hospital. Murray & Hutchinson, 101 Tremont St., are Archs.

NEW HAVEN, CONN.—The Consolidated Ry. Co. will erect a large trolley depot at Chapel and Union Sts. at a cost of $500,000. J. K. Punderford is Gen. Mgr.

DUNKIRK, N. Y.—The Board of Supervisors of Chautauqua County has approved plans for the court-house to be erected here. W. J. Beardsley, of Poughkeepsie, is Arch. Estimated cost, $135,000.

NEW YORK, N. Y.—Schwartz & Schwartz, Arch., 35 West 21st St. will prepare plans for two 6-story apartments to be erected on Broadway, between 158th and 159th Sts., by the Hudson Realty Co. Estimated cost, $35,000.

The GEORGE A. FULLER CO., Flatiron Building has been awarded the contract for the erection of the new building for the Consolidated Stock Exchange, at Broad and Beaver Sts. at a cost of $275,000. It is to be four stories high, 99 × 126 ft. Clinton & Russell, 32 Nassau St. are Archs.

NEW YORK, N. Y.—Oscar Lowinson, Arch., 18 East 42d St., is to prepare plans for the 16-story store and office building to be erected on the site of the Lotus Club, at a cost of $700,000.

Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 11 a. m., Nov. 26, for construction of additions to and alterations in public school 41 on Greenwich Ave., near East Tenth St., Boro. of Manhattan; also for installing heating and ventilating apparatus for additions to public school 66 on Union Place, between Tulip and Walnut Sts., Brooklyn Hills, Boro. of Brooklyn.

Bids are asked until 11 a. m., Dec. 3, by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for construction of public school 17 at 47th and 48th Sts. near Eighth Ave., Boro. of Manhattan.

The following bids were received, Nov. 19, for installing heating and ventilating apparatus in school 1 on Summit St., between Prospect and Garretson Aves., Tottenville, Boro. of Richmond; Frank Dobson, 319 East 53d St., $40,747; Blake & Williams, 211 West 20th St., $34,617; Monad Engineering Co., 147 Cedar St., $35,650; E. Rutzler Co., 127 White St., $39,247; R. J. Sovereign Co., 637 Fifth Ave., $38,400.

NEW YORK, N. Y.—Bids were opened Nov. 19. for the construction of public school 89, on Orchard Ave., between Fifth and Sixth Sts., Elmhurst, Boro. of Queens. The following bids were received; Waters & O'Connell, 103 East 125th St., $291,000; Clarke & Starre, 44 Court St., Brooklyn, $292,300; Thos. McKeon, 5 West 110th St., $308,737; R. E. Heningham, 1 Madison Ave., $292,158; Chas. H. Peckworth, 415 Hudson St., $291,692; Mathews Realty and Construction Co., $287,000; Geo. Hildebrand, 38 Park Row, $297,200; Thos. Cockerill & Son, 147 Columbus Ave., $283,000.

The following were the two lowest bids received, Nov. 19, for the sanitary work and gas fitting of new public school 12 at Madison and Jackson Sts., Boro. of Manhattan; W. C. Ormond, 909 President St., Brooklyn, $37,910, and George E. Gitson, 511 Park Ave., $32,845.

Bids were opened, Nov. 19, for the construction of addition to and alternations in public school 22 at Stanford Ave. and Murray St., Boro. of Queens. The following were the two lowest bids; Thos. Cockerill & Son, 147 Columbus Ave., $58,500; Ed. Stapleton, Flushing, L. I., $61,520.

YOUNGSTOWN, N. Y.—A. J. SERVIS & SON, of this city, have been awarded the contract to erect the several buildings at Fort Niagara; their bid was about $150,000.

ATLANTIC CITY, N. J.—THOMPSON & STILES, of this city, have been awarded the contract for the erection of the municipal hospital at $74,144, by the Board of Hospital Governors. It is to be a 4-story building.

TRENTON, N. J.—A new school is to be erected here on Tyler St. at a cost of $125,000. Harry A. Hill, 40 East State St. is Arch. Plans have been accepted.

Money has been appropriated by the Common Council for the erection of a new city-hall. $300,000 has been appropriated.

LAWRENCEVILLE, PA.—A Y. M. C. A. building is to be erected here at a cost of $126,000.

HARRISBURG, PA.—For the erection by the Pennsylvania State Hospital in this city of a building for acute cases, one for convalescents, one for dangerous patients, a home for the nurses for women, and an amusement hall and chapel combined, $390,000 has been asked of the State Board of Charities by Spencer C. Gilbert and James M. Lamberton, of the Board of Trustees, of this city.

PITTSBURG, PA.—The Pittsburg Gage & Supply Co. will erect a 6-story, 143 × 154 ft., building at a cost of $250,000 to be erected at Liberty Ave. and 30th St. The William Glyde Wilkins Co. designed the building. It is to be a fireproof, brick and steel building. The GEORGE M. HOGG CO., of Braddock, has the contract.

PHILADELPHIA, PA.—An 11-story store building is to be erected for John Wanamaker at 1224-26 Market St. D. H. Burnham & Co., 1317 Market St., are Archs. Estimated cost $200,000. Bids are now asked.

The Bell Telephone Co. 17th and Filbert Sts. will have plans prepared for 10-story brick, concrete and steel office building. Estimated cost, $500,000. Power plant will be installed.

J. H. Windrim, Arch., Commonwealth Bldg. is preparing plans for a 12-story brick, steel and concrete office building to be erected by the Girard Estate at Fifth and Chestnut Sts. at a cost of $1,000,000. It is to be of fireproof construction.

WEST CHESTER, PA.—Bids are asked by Wm. C. Prichelt, Arch., 420 Walnut St., Philadelphia, until Nov. 23, for the erection of a 6-story brick, stone and steel bank and office building to be erected for the First National Bank. Estimated cost, $100,000.

BALTIMORE, MD.—The Electric Park terminal station for the Maryland Electric Railway Co., which will be leased to and used by the United Railways Co., will be built by the McCALL CONTRACTING CO. It was designed by Simonson & Pietsch, Archs. The building will cost $125,000.

WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. of U. S. Capital Building and Grounds, until 2 p. m., Dec. 15, for steel framing for construction of office building for the U. S. Senate. (Advertised, Engineering News.)

The Army Quartermaster, Washington, D. C., has made the following awards in connection with the construction of the Walter Reed Army General Hospital, Washington, D. C., for which bids were opened Oct. 11: General Construction, CRAMP & CO., Philadelphia, at $154,843; conduits and wiring, same company, $4,400; plumbing and gaspiping, S. FAITH & CO., Philadelphia, $14,370; heating and ventilating systems, C. H. SANBORN, Boston, Mass, $18,350. The remainder of the awards have not yet been made.

B. Stanley Simmons, Arch., 931 F St., N. W., Washington, has received the first prize for competitive plans for the new hotel to be erected at 14th St. and Pennsylvania Ave., and to be known as the Hotel Randolph. The second prize was awarded to Vogt & Melton, Washington; the third to Appleton T. Clark, Jr., and the fourth to Tormey & Leach, Baltimore, Md. The building including site and furnishings will cost about $1,00,000, the structure alone costing $400,000. Prof. Percy Ash, George Washington University, Washington; P. M. Gormley, James Galbery, of the Knickerbocker Hotel, New York; and Frank Wiggins, of the Imperial Hotel, New York, constituted the Committee of Award.

WASHINGTON, D. C.—A permit has been issued to W. B. Hibbs to erect a 10-story office building at 723 15th St. N.W., at a cost of $200,000.

The J. C. Robinson Co., New Custom House, New York, was the lowest bidder for the completion of a mess hall and dormitories at the U. S. Soldiers' Home. His bid was $728,000. It is to be a 4-story brick, stone and steel building, of fireproof construction.

WINCHESTER, VA.—It is reported that the Mankin Construction Co. was the lowest bidder for the erection of the new library to be erected here. Estimated cost, $100,000.

ATLANTA, GA.—The temple to be erected by the Masonic Temple Co., for which plans of Morgan & Dillon, Archs., were adopted, will be four stories high, 60 × 140 ft.

LAKE CHARLES, LA.—Contracts will be awarded Jan. 1, 1907, for the erection of an office building to be erected by the Lake Charles Realty Co., at a cost of $200,000.

MEMPHIS, TENN.—L. M. Weathers & Co., Archs., Cotton Exchange Bldg., have completed plans for a 12-story office building, to be erected by R. R. McGill and associates. It is to be of steel construction, and will cost about $200,000.

The addition to be erected to the Peabody Hotel by the Memphis Hotel Co. will be 47 × 154 ft. The power plant will be practically new and will include electric machinery, electric elevators, laundry equipment, refrigerator plant and power sufficient to operate the same. L. P. Parker is Mgr.

WEST LIBERTY, KY.—Bids are asked by the Court House Building Committee, until 10 a. m., Dec. 20, for the erection of a court house.

LEXINGTON, KY. — Contracts will be awarded about Dec. 1 for the addition to be made to the Phoenix Hotel. It is to be 85 × 240 ft., of fireproof construction, and will cost about $300,000. McCarty & Bulford, of Columbus, Ohio, are Archs. Charles Seebback is Mgr.

CHICAGO, ILL.—A new theater is to be erected on Clark St., just south of the Grace Hotel, at a cost of $150,000. The building will be 75 × 100 ft.

Plans have been accepted by the Empire Circuit Co. for the erection of a theater at 142-48 West Madison St. to cost $125,000. S. N. Crowen, 85 Dearborn St., is Arch.

E. B. Shaw will build a 3-story apartment house at Ashland Boulevard and Van Buren St. at a cost of $100,000. It will be 100 × 150 ft. Marshall & Fox, Archs., First National Bank Bldg., prepared the plans.

DES MOINES, IOWA.—Fleming Bros. are to erect an 11-story office building here at Sixth and Walnut Sts. Estimated cost, $200,000.

DULUTH, MINN.—GEORGE H. LOUNSBERRY has been awarded the contract for the erection of the Y. M. C. A. building, at $120,000.

WEBB CITY, MO.—The Southwest Missouri Electric Railway Co. is having plans prepared by F. W. Caulkins, Arch., for a 4 or 5-story office building 75 × 125 ft, of brick and stone. Estimated cost, $140,000.

A. Allen Co., Archs., Joplin, Mo., have completed plans for telephone exchange to be erected by the Home Telephone Co. of Joplin, Mo.; two stories high, 30 × 75 ft. Estimated cost, $100,000.

KANSAS CITY, MO.—It is reported that the Knights of Pythias are about to erect a building at 15th St. and the Pasea, at a cost of $150,000.

Bids are asked until 3 p. m., Dec. 10, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for the installation of a hydraulic mail lift in the U. S. post-office and court house in this city.

ST. JOSEPH, MO.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 11, for the installation of an electric passenger elevator and hydraulic freight lift in the U. S. post-office in this city.

BANDERA, TEX.—Bids are asked by Rev. John Rabling, Pastor Catholic Church, until Dec. 1 for the erection of an addition of stone to the Catholic church here.

EL PASO, TEX.—It is reported that the Independent School District contemplates the erection of two new school buildings and additions to three old ones, at a cost of $100,000. John H. Harper is Secy.

BELLINGHAM, WASH.—Preparations are being made for the construction of a story building at East Holly and Elk Sts. cost $250,000.

SEATTLE, WASH.—I. Pamerantz, Arch., has completed plans for a 10-story apartment building to be erected by L. Griffith of the Griffith Co. It is to be located at East Spring and East Marion Sts. at a cost of $1,400,000.

P. O. SHANNON has been awarded the contract for the erection of a new building to be erected at Terry Ave. and Marion Sts. by Edward W. Herald and Abe Ritzwoll. The building is to be six stories high, 120 ft., and will cost about $100,000.

PORTLAND, ORE.—W. H. Marks will erect a 2- or 3-story brick and steel frame building at Morrison St. and Union Ave. at a cost of $100,000.

Rothchild Bros. are to erect a 7-story steel building at Fourth and Washington Sts. at a cost of $125,000. Whidden & Lewis, 47 Concord Bldg., are Archs.

LOS ANGELES, CAL.—F. H. Holmes will erect a 6-story hotel at Westlake Ave. and Sixth St. at a cost of $300,000. It is to be of fireproof construction.

SAN FRANCISCO, CAL.—Wells, Fargo & Co. will reconstruct their building at Second and Mission Sts. at an estimated cost of $250,000. It is to be an 8-story, Class A building of steel construction.

MONTREAL, QUE.—John James Browne & Co. are Archs. for the 10-story building to be erected by Willis & Co. at St. Catherine and Drummond Sts. Estimated cost, $100,000.

HAMILTON, ONT. — The CANADIAN WHITE CO., Montreal, has been awarded the contract for building the union electric railroad station for the Cataract Power & Traction Co. The station will be 112 × 72 ft., four stories high. Estimated cost, $225,000.

OTTAWA, ONT.—Bids are asked until Nov. 26 by Fred Getinas, Secy. of Dept. of Pub. Wks., for the construction of an addition to the Parliament buildings. Estimated cost, $3,000,000.

TORONTO, ONT.—Bids are asked by Emerson Coatsworth, Chn. Bd. of Control of City, until noon, Nov. 27, for building Central fire hall on Adelaide St. West.

MANITOU, MAN.—MARTIN, McCOY & CLARK, Manitou, Man., have received the contract for the erection of an ice skating rink for Albert and John Crane.

PORTAGE LA PRAIRIE, MAN.—The A. F. & A. M. have purchased a site on which to erect a temple.

REGINA, SASK.—At a recent meeting of the Board of Hospital Directors it was decided to at once secure money for the erection of an $100,000 hospital.

REGINA, SASK.—At a meeting of the Regina Hospital Directors it was decided to ask the city council to have a by-law presented authorizing the building of a municipal hospital at a cost of $100,000.

NELSON, B. C.—W. G. GILLETT has received the contract for the new court house. Estimated cost, $74,990.

VANCOUVER, B. C.—The Council will spend $150,000 next spring on new school buildings, plans for which are now being prepared.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—At a recent meeting of the City Council, it was decided to bond city for $75,000 to install a filtration plant; supply to come from Lake Champlain.

HOLYOKE, MASS.—We are officially advised that on Nov. 16, the contract for supplying c.-i. pipe was awarded to FRED A. HOUDLETTE & SON, 93 Broad St., Boston, at $15,565. James L. Lighe is Engr. Holyoke Water-Works.

NEW YORK, N. Y.—Bids were received Nov. 7, by John H. O'Brien, Commissioner Water Supply, Gas and Electricity, for furnishing and laying water mains in Edgecombe, Fulton, Mohawk and Seneca Aves.; in Longfellow, Faile, 60th and 163d Sts; in Broadway and in Kingsbridge Road: L. D. Gregory, 125th St. and First Ave., $34,515; Norton N. Dalton, 27 West 140th St., $32,908; Atlanta Construction Co., 432 East 91st St., $35,686; Terrara & Tuecillo, 195 Grand St., $28,355; F. V. Smith Contracting Co., 147 East 125th St., $34,467; Wilton Construction Co., Williamsbridge, N. Y.

The following bids were received at the same time for furnishing, delivering and laying water mains and appurtenances in Hillside, Huguenot, Riverside and Prospect Aves.; in Androvette, Bayway, Beach, Kreischer and Wynant Sts.; in Amboy, Arrochale, Freshkill, Mill and Villa Roads, and in Academy Pl., Boro. of Richmond: John E. Donovan, Morningstar Road, Staten Island, $163,244; John E. Consoleus, Staten Island, $121,971; Joseph Johnson & Sons, Staten Island, $150,986; Clinton Beckwith, Herkimer, N. Y., $125,648; James P. Graham, Brooklyn, $122,512; Frank J. Gallegher, Brooklyn, $146,881.

The bids received Nov. 7, for furnishing, constructing and remodeling the Ridgewood Pumping Station, north side of Atlantic Ave., between Logan and Chestnut Sts., Boro. of Brooklyn, were as follows: Saure

& Triest Co., 143 Liberty St., $316,930; George T. Driscoll, 391 Fulton St., $321,000; F. W. Carten Construction Co., Brooklyn, $299,000; C. H. Peckworth, 415 Hudson St., $338,840; M. J. Dady, 350 Fulton St., $261,-000; Kelly & Kelley, 45 East 42d St., $336,-000; Fuller & O'Connor, 26 Court St., $298,-442; Thomas Cockerill & Son, 147 Columbus Ave., $[illegible],553.

ALLEGHENY, N. Y.—The WILLIAM TODD CO., of Youngstown, Ohio, is reported to have secured contract for installing an 8,000,000-gallon pumping engine at Howard St. Station, Allegheny. John Swain, Jr., is Dir. Dept. Pub. Wks.

TROY, N. Y.—Bids are asked until noon, Dec. 11, by the Board of Contract and Supply, for constructing the spillway canal of the Tomhannock Reservoir. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked until 2 p. m., Dec. 5, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and delivering wrought iron or wrought steel pipe and pipe fittings.

CAMDEN, N. J.—Bids are asked until 8 p. m., Dec. 4, by Joseph Potter, Chn. Water Com., at Room 2, City Hall, Camden, for laying submerged pipe line across Cooper's Creek at State St. (Advertised, Engineering News.)

GLEN GARDNER, N. J.—The contract for the construction of a water system for the sanitorium near Glen Gardner, has been awarded to MARCUS S. WRIGHT, of South River, at $13,919. The contract for the sewage disposal plant has been awarded to the NEW YORK SEWAGE DISPOSAL CO., 1 Madison Ave., New York, N. Y., at $6,740.

MAYS LANDING, N. J.—The Hamilton Township Committee is reported to have awarded contracts for the construction of water-works at Mays Landing as follows: GEORGE KRAAMAR, of Egg Harbor City, for laying pipes, building pumping station and installing machinery; to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa., to furnish pipe, valves and hydrants; THIBET & WOOD, of Phillipsburg, N. J., for a 100,000-gallon stand-pipe; and THOMAS B. HARPER, of Jenkintown, Pa., for artesian well. Total cost, about $24,-500.

STEELTON, PA.—We are officially advised that James H. Fuertes, 140 Nassau St., New York, is preparing a report on proposed water supply and filtration plants for Steelton, and that contracts probably will be let in the spring of 1907. J. V. W. Reynders is Chn. Special Water Com.

WILMINGTON, N. C. — The LOWERY PUMP & WELL CO. is reported to have secured the contract for furnishing two 10-in. wells, at $3,500.

VIDALIA, GA.—This city has voted affirmatively the issue of $14,000 water-works and $9,000 electric light bonds.

CORDELE, GA.—Bonds to the amount of $45,000 will be issued for extension of sewer and water-works systems of this city.

TUSCALOOSA, ALA.—This city has voted affirmatively the proposed bond issue for the construction of water-works.

WINNFIELD, LA.—William McIntosh, C. E., New Orleans, La., has been engaged to furnish plans and estimate the cost of water-works for Winnfield.

FORT ST. PHILIP, LA.—Bids are asked until Dec. 7, by Capt. B. T. Clayton, Q. M., New Orleans, for constructing eleven cypress cisterns at this post.

GRAND CHENIER, LA.—The Rice Irrigation & Improvement Association, of Crowley, La., is arranging to repair 50 ft. of dam which was damaged by dynamite. About $20,000 will be expended. H. L. Risher is Engr.-in-Charge; M. Abbott is Pres., and James L. Wright, Secy.

MEMPHIS, TENN.—The City Council has voted for the extension of 12-in. water mains in South Memphis, to the property of the South Memphis Land Co. J. A. Omberg is City Engr.

VERSAILLES, KY.—It is estimated that the cost of constructing water-works and sewer systems in Versailles will amount to $34,375 and $21,688, respectively. The Riggs & Sherman Co., the Nasby, Toledo, Ohio, are Engrs.

NORWOOD, OHIO.—Bids are asked by the Board of Public Service until Dec. 1, for furnishing and delivering a supply of water meters.

SANDUSKY, OHIO.—It is reported that the citizens of Sandusky have voted affirmative upon the question of issuing $75,000 of bonds for construction of filtration plant. J. W. Miller is City Engr.

ROSCOE, OHIO.—We are officially advised that the following bids were received Nov. 14, by the State Board of Public Works, Columbus, Ohio, for constructing cement dam across the Walhonding River, the State to furnish cement, costing $3,856: W. M. Brode, New Comerstown, Ohio, $28,770; Westhofer Construction Co., New Philadelphia, Ohio, $28,642; W. H. Schott, 169 Clark St., Chicago, Ill., $20,600; J. N. Kissner, West Lafayette, Ohio, $18,950. W. H. Schott, Chicago, also bid $19,000 for special plan of concrete steel dam. Charles E. Perkins is Ch. Engr. Pub. Wks.

MILAN, MICH.—It is proposed to construct a 3,000-ft. pipe-line in Milan at once. W. P. Gregory is Village Clk.

MATTOON, ILL.—The citizens are organizing a company for the purpose of establishing a complete system of water-works. About $40,000 has been subscribed for the purpose.

CHICAGO, ILL.—The totals of bids received by the Department of Public Works, for furnishing material and constructing a 14-ft. water tunnel, including certain shafts; also a permanent intake crib and a temporary crib and working shaft, tunnel to be known as Sect. 3, Southwest Land and Lake tunnel, Joseph Hanreddy, $1,450,000, with cement retaining wall; Jackson & Corbett Co., $1,550,000 for cement retaining wall, or $1,675,000 for brick retaining wall. The figures given last week were for the intake crib, including two permanent shafts and gates and did not include shore shaft and tunnel cost.

WEST SALEM, WIS.—On Nov. 6 the citizens voted in favor of issuing $12,000 of bonds for water-works construction.

OELWEIN, IOWA.—It is reported that the Chicago Great Western Ry. Co. has under consideration the question of installing water-works and an ice plant to cost about $45,000. A. Munster, Ch. Engr., St. Paul, Minn.; W. Matthie is Div. Supt., Oelwein.

CONCORDIA, KAN.—It is reported that the water-works system of Concordia will be extended soon.

MITCHELL, NEB.—Bids are asked until 2 p. m., Jan. 9, 1907, at the office of U. S. Reclamation Service, Mitchell, for constructing diversion dam and head works, furnishing and placing in structures, about 10,000 ft. B. M., lumber, and constructing about 8,000 cu. yds. concrete masonry in connection with the North Platte Project. John E. Field is Project Engr. (Advertised, Engineering News.)

LANDER, WYO.—We are officially informed that on Nov. 6 the contract for constructing water and sewer systems at Lander was awarded to the AMERICAN LIGHT & WATER CO., New England Bldg., Kansas City, Mo. F. C. Tucker, Lander, is Des. Engr.; W. G. Burnett is Town Clk.

GLENDIVE, MONT.—The Secretary of the Interior has granted an extension of time to May 31, 1907, to the Deadwood Construction Co., of Deadwood, S. Dak., for completion of their contract for structures, Division 4, Main Canal, Lower Yellowstone irrigation project, Mont.-N. Dak. According to the terms of the contract this work was to be completed on Dec. 1, but owing to the occurrence of excessive rains, difficulty in securing labor and additional work required under the specifications, it became necessary to extend time of completion.

FORT BLISS (El Paso post-office), TEX.—Bids are asked until noon, Dec. 10, by Lieut. C. O. Schudt, B. Q. M., for sinking a 12-in. tubular deep well, installing a deep well pump over same, and for constructing a deep well pump shelter and trestle, and a 150,000 gallon steel tank on a 70-ft. trestle, at this post.

EL PASO, TEX.—The Secretary of the Interior has executed a contract with and approved the bond of F. NELSON, of San Antonio, Tex., for construction and completion of a diversion dam and canal, Rio Grande irrigation project, N. Mex. The contract calls for construction of six miles of canal, with 321,000 cu. yds. of excavation, furnishing and driving 35,000 lin. ft. of round piles and 170,000 ft., B. M., sheet piles, and 2,600 cu. yds. of concrete for the sum of $100,187.

JULESBURG, COLO.—Bids are asked until 7 p. m., Dec. 3, by A. F. Perrier, Town Clk., for constructing system of water-works and electric light plant at Julesburg. (Advertised, Engineering News.)

FORT WINGATE, N. MEX.—We are officially advised that on Nov. 15 the following were the lowest bids received for constructing a 98,000-gallon reservoir: The George Hinchliff Co., Security Bldg., Chicago, Ill., $4,200 for reservoir 40 ft. in diameter, and $3,720 for one 30 ft. in diameter. Lieut. G. A. Morrison is Constr. Q. M.

SHELTON, WASH.—We are officially advised that the OLYMPIA WOOD PIPE CO., of Olympia, has secured the contract for constructing a reservoir at Shelton. It will be a circular tank 32 ft. in diameter. J. B. Weddell is Engr.

SAN DIEGO, CAL.—G. A. D'Hemecourt, City Engr., is stated to have submitted to the City Council a report on the extension of the water-works, which he estimates will cost $308,000. J. T. Butler is City Clk.

LEWISTON, IDAHO.—Bids are asked until 4 p. m., Dec. 3, by John E. Nickerson, City Clk., for installing a triplex power pump and motor, also castings, gates and specials.

WINNIPEG, MAN.—The City Engineer is preparing a list of water pipes and specials for which bids will shortly be called. The value of these goods will be over $150,000.

The City Council has awarded the contract to BABCOCK & WILCOX for the supply of two 250-HP. water tube boilers, at $14,750. H. N. Ruttan is City Engr.

YORKTON, SASK.—We are officially advised that plans have been prepared by Willis Chipman, Bay St., Toronto, Ont., for proposed water system. Bids probably will be asked in the spring.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—Bids are asked until Nov. 23 at the office of C. W. Kelly, City Engr., for constructing a sewer in Grafton St.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 3, by Joseph Bermel, Pres. Boro. of Queens, for constructing sewers in St. Nicholas, Eleventh and Third Aves., and in Clark and 20th Sts., Boro. of Queens.

OSWEGO, N. Y.—OVID TAFT has been awarded the contract for laying about 600 ft. of sewer in Oswego at $5,200.

BUFFALO, N. Y.—A resolution has been passed by the Board of Aldermen, granting permission to Maria Louise Randall to construct 15, 12 and 10-in. tile sewers in both sides of proposed Colgate Ave., from South Park Ave. 1,120 ft. west.

The Common Council of the City of Buffalo intend to order an 18, 15 and 12-in. tile sewer constructed in southwest side of Humbolt Parkway and Agassiz Pl., between Main St. and the northwest side of Agassiz Pl. The Commissioner of Public Works has been directed to prepare plans and specifications and advertise for proposals to do the work.

The Council has ordered that plans be prepared for sewers in Hertel Ave., between Cornelius Creek and Magara St. Estimated cost, $75,000. C. M. Morse is City Engr. Francis G. Ward is Comr. Pub. Wks.

MEDINA, N. Y.—The State Board of Health has ordered that the eastern and south eastern portions of Medina be provided with adequate sewerage. Gotts & Chauncy are in charge of arrangements.

YOUNGSVILLE, PA.—W. S. MESERVE, Mount Jewett, Pa., has secured the contract for construction of sewer system at Youngsville, Pa. Work will be started at once, and will be completed during next summer.

MEYERSDALE, PA.—The citizens voted Nov. 10 to issue $20,000 of bonds for street and sewer improvements. Bids will be called for in the spring. G. L. Beuord, of Meyersdale, is Engr.; W. A. Shoemaker is Boro. Clk.

NEW CASTLE, PA.—A sewage disposal system is to be constructed here and C. H. Milholland has been selected as engineer for the work.

BALTIMORE, MD.—We are officially advised that on Nov. 14 M. A. TALBOTT & CO., 415 American Bldg., Baltimore, were awarded contract by the Board of Awards for constructing sewers as follows: Outfall sewer, Section 1, Contract No. 1, $161,823; outfall sewer, Section 2, contract No. 2, $119,237. Calvin W. Hendricks is Ch. Engr. Sewerage Comn.

BALTIMORE, MD.—Bids are asked by the Sewerage Commissioner until Nov. 28, for furnishing and erecting a sewage pumping plant, consisting of three 27,500,000-gallon pumps, two drainage pumps, boilers, piping and accessories.

PORTSMOUTH, VA.—Bids will be received during the winter for constructing pipe sewers in the Fifth Ward, at a cost of $110,000. Bascom Sykes is City Engr.; L. P. Salter is City Clk.

ORANGEBURG, S. C.—We are officially advised that plans and specifications are being prepared for constructing sewers ranging from 8 to 24-in. in diameter. Edward Hawes, Jr., is City Engr.; S. H. Wannamaker is City Clk.

CORDELE, GA.—See under Water Supply and Irrigation.

DAWSON, GA.—We are officially advised that contract for installing between seven and eight miles of sanitary sewers has been awarded to BENNER & MACKEY, Marion, Ind. R. E. Bell is Clk.

WINCHESTER, KY.—On Nov 6, the citizens voted in favor of a bond issue of $40,000 for sewer construction. W. A. Atterall is Mayor.

VERSAILLES, KY.—See under Water Supply and Irrigation.

GIRARD, OHIO.—Girard will shortly ask for bids for the construction of sewer improvements, to cost about $30,000. E. M. Hauser is City Clk.

LEBANON, OHIO.—Bids are asked by the Village Council until Dec. 7 for constructing a trunk sewer about 3,380 ft. long, also for a main sewer 680 ft. long.

CLEVELAND, OHIO.—We are officially informed that the following bids were received Nov. 13, by the Board of Public Service, for constructing main intercepting sewer in Lakeside Ave., N. E., (a) between East 40th and East 33d Sts.; (b) between East 33d and East 26th Sts.: Christian Burkhardt, (a) $73,848; (b) $74,839. The Reaugh Construction Co., (a) $74,219; (b) $72,089. The Connelly Construction Co., (a) $74,483, (b) $75,276. William Dennon, (a) $79,038, (b) $71,602. The C. A. Fath & Son Construction Co., $77,893, (b) $76,035. John Wagoner, (a) $80,767, (b) $78,870. The J. W. Townsend Co., (a) $85,418, (b) $82,706. The Reserve Construction Co., (a) $93,395, (b) $85,285. The James Duff Construction Co., (a) $98,161, (b) $92,346; A. F. Helen, (a) $92,463, (b) $90,336; Burns & Doolittle, (a) informal. William J. Carter is Ch. Engr.; Robert Hoffman is Asst. Ch. Engr., Dept. Pub. Service.

CROWN POINT, IND.—Herman E. Sasse, Chn. Sewer Com., writes us that in view of establishing a sewer system at Crown Point, he desires to communicate with engineers and contractors.

EVANSVILLE, IND.—The Trustees of the Southern Indiana Insane Hospital are preparing to ask for bids for construction and equipment of septic tank plant in order to dispose of sewage. Estimated cost, $15,000.

CLINTON, IND.—HARRIS & DORSEY have been awarded a contract for construction of a sewer system in this city, at $23,000.

INDIANAPOLIS, IND.—Bids are asked until Nov. 28, for constructing concrete or brick sewers in Indianapolis ranging from 1 ft. 10 ins. × 2 ft. 9 ins. to 7 × 8 ft. and pipe sewers from 12 to 20 ins. There will be about 18,315 lin ft. Estimated cost, $115,000. Blaine H. Miller is City Engr.; Charles A. Brown is Asst. City Engr.

KALAMAZOO, MICH.—About 6,000 acres of government marsh in this county will be drained next year. A 15-mile ditch, to cost $15,000, will be built to carry off the water.

GALESBURG, ILL.—The Board of Local Improvement is reported to be considering the construction of sewer in the southwest part of city, to cost $55,000.

OMAHA, NEB.—The Walnut Hill sewer contract was awarded on Nov. 12, by the Council, to R. L. KENNEDY & CO. The firm's bid was lowest of all offered, $18,063.

KIRKWOOD, MO.—JOHN F. McMAHON has been awarded contract for constructing public sewer, at $6,317, and for constructing special sewer, at $18,776.

INDEPENDENCE, MO.—A vitrified pipe sewer will be constructed by the city at a cost of $15,000. J. A. Prewitt, is City Clk.; R. T. Proctor is City Engr.

ST. JOSEPH, MO.—The Board of Public Works on Nov. 8 awarded the following contracts: Constructing sewers in Districts No. 80 and No. 37, to G. O. SKILBRED; constructing sewer to District No. 77, to JOHN MARNELL.

DALLAS, TEX.—Bids are asked by E. L. Dalton, City Engr., until Nov. 27, for constructing sewers in various streets of Dallas.

EL PASO, TEX.—The question of constructing a sewer from Campbell St. to the river, along Franklin St., 5,300 ft. in length, is under consideration. Geo. C. Wimberly is City Engr.

SHAWNEE, OKLA.—The city has voted to issue $170,000 of bonds for sanitary sewers and water extension.

SPOKANE, WASH.—At a recent meeting of the Board of Public Works the contract for construction of a trunk sewer in the Third Ward, District No. 1, was awarded to the INDEPENDENCE ASPHALT CO., at $74,000.

OAKLAND, CAL.—The ordinance authorizing the Board of Public Works to advertise for bids and award contracts for the construction was passed by the City Council on Nov. 5. The amount voted for expenditure on sewers was $588,500. F. C. Turner is City Engr.

LINDSAY, ONT.—An election will be held to pass a by-law allowing an expenditure of $20,000 for installing a sewage filter system.

TORONTO, ONT.—A by-law will be submitted to the ratepayers to authorize the expenditure of $3,000,000 on a trunk sewer. C. H. Rust is City Engr.

WINNIPEG, MAN.—Bids are asked to be received about Jan. 4 by C. J. Brown, City Clk., for construction of a trunk sewer in Ward 7. It will be of concrete, and cost about $72,000. H. N. Ruttan is City Engr.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

WATERBURY, CONN.—We are officially advised that this city has awarded to the WARREN BROTHERS CO., 93 Federal St., Boston, Mass., an additional contract for 7,700 sq. yds. of bitulithic pavement.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 3, by Joseph Bermel, Pres. Boro. of Queens, for laying sidewalks on Bradford Ave., and for regulating, grading, curbing and laying sidewalks on Emma St., from Flushing Ave. to William St., and on Eleventh Ave., from Grand to Wilson Aves.

PORT CHESTER, N. Y.—We are officially advised that JOHN O. MERRITT, Port Chester, has secured contract, at $31,658, for paving a portion of North Main St., for which bids were opened Nov. 12. Other bidders were: Asphalt Construction Co., Madison Ave. and 137th St., New York, $33,647; R. W. Henson, Geneva, N. Y., $33,682; William F. Norton, $34,539; George Mertz Sons, Port Chester, $33,604. The engineer's estimate was $34,854.

BUFFALO, N. Y.—Bids were received Nov. 9 by the Department of Public Works for paving (a) Urban St., between Fillmore Ave. and Moselle St.; (b) Southeast corner of Richmond Ave. and Bryant St.; (c) Mystic St., between Hopkins and Abby Sts.; (d) Beacon St., between Hopkins and Abby Sts. The following are the low bidders: (a) On macadam base, F. V. E. Bardol, round edge fire clay brick and round edge shale brick, $27,400; on concrete base, same. Henry P. Gurgard Co., California asphalt, $31,000. (b) Barber Asphalt Paving Co., pitch lake asphalt, $844. (c) On macadam base, F. V. E. Bardol, round edge fire clay brick and round edge shale brick, $12,800; same on concrete base, $12,300; German Rock Asphalt & Concrete Co., standard asphalt, $12,940. (d) On macadam base, with round edge fire brick or round edge shale brick, F. V. E. Bardol, $13,900; same on concrete base, $13,400; California asphalt, Henry P. Burgard Co., $13,000. F. J. Ward is Comr. of Pub. Wks.

ALBANY, N. Y.—An ordinance is pending in the Common Council providing for the improvement and extension of Judson St., from Livingston Ave. to the Manning Boulevard; the carriageway to be of macadam and the sidewalks of flags. The estimated cost of the work is $8,500.

The Board of Contract and Supply, Albany, has rejected the bids received some weeks ago for improvement of Western Ave., from its terminus to the city line, on the ground that they were excessive. The work will be readvertised. Walter Melius is City Engr. and Isidore Wachsman is Clerk. of Bd.

NEWARK, N. J.—Bids are asked until 3 p. m., Dec. 12, by the Committee on Roads and Assessments of the Board of Chosen Freeholders of the County of Essex, for paving in Bloomfield, Nutley, Livingston, West Caldwell, Irvington, South Orange and West Orange. Thomas McGowan is Dir. (Advertised, Engineering News.)

NEWARK, N. J.—An additional contract for 3,500 sq. yds. of bitulithic pavement has been awarded the STANDARD BITULITHIC CO., 253 Broadway, New York, N. Y.

JERSEY CITY, N. J.—EDWARD P. O'NEILL has been awarded contract for constructing sidewalks on the Paterson Plankroad, at $9,570.

SCRANTON, PA.—We are officially advised that the WHITE HAVEN STONE CO., White Haven, Pa., has been awarded contract for paving about 20,000 sq. ft. of Seventh St. Bids were received on Nov. 10 by Charles R. Acker, Dir. Dept. Pub. Wks. Henry Jifkins is City Engr.

PITTSBURG, PA.—We are informed that this city is about to let contracts for a large amount of sewer, street and bridge work, to be completed in 1907. The city now has about 12 miles of streets and 4½ miles of sewers, and two large bridges under contract, and considerable more will be let by the first of the year. E. M. Wilkins is Supt., Dept. Pub. Wks.

WASHINGTON, PA.—Bids are asked by Joseph W. Hunter, State Highway Comr., Harrisburg, Pa., until Nov. 30, for construction of 17,100 ft. of road in South Strabane Township.

HARRISBURG, PA.—Bids are asked until Nov. 26, by William H. Lynch, Highway Comr., for paving 113,000 sq. yds. of road. About 65,840 lin. ft. curbing is needed. M. B. Cowden is City Clk.; Charles Miller is City Engr.

D. J. ROGERS, of Danville, is reported to have secured the contract for constructing about one mile of State road in Lower Paxton Township, at a cost of $9,259.

NORFOLK, VA.—Bids are asked until Dec. 3 for improving Marshall Ave., Brambleton Ward. H. Hodges is Chn. of Bd. of Control; W. T. Brooke is City Engr.

The contract for the construction of the Jamestown Boulevard has been awarded to MUNDY BROS., of this city, at $55,300. The road will be macadamized and work on it is expected to begin within the next 30 days. The contract does not include the construction of bridges, which will be bid for separately. A bridge will be constructed at the foot of Colley Ave., and the bridge over Tanner's Creek will be widened.

COLUMBIA, S. C.—It is reported that the city will expend $100,000 in street paving. R. C. Keenan is Chn. St. Com.

JACKSONVILLE, FLA. — The Southern Fuel & Supply Co. is lowest bidder, at 68 cts. a sq. yd., for repairing and rebuilding the rock road. Philip Prioleau is City Engr.

MOBILE, ALA.—We are officially advised that the Board of Public Works has awarded to the SOUTHERN BITULITHIC CO. a contract for 40,000 sq. yds. of bitulithic pavement. Wright Smith is Ch. Engr. Bd. Pub. Wks.

MONTGOMERY, ALA.—Bids are asked until Dec. 3 by R. S. Williams, City Treas., for paving sidewalks on Bell St., from Moulton St. to the city limits, with hexagon block or Schillinger pavement.

BIRMINGHAM, ALA.—Contracts for paving have been awarded by City Council as follows: To SOUTHERN BITULITHIC CO. for work amounting to $30,873; to GRAVES & MATTHEWS for work amounting to $50,095, and to R. BLACKBURNE, 219 South 21st St., for work amounting to $6,735.

PASCAGOULA, MISS.—The city will issue $35,000 of bonds for street improvements and constructing sewerage system.

CINCINNATI, OHIO.—The Kirchner Construction Co., Eighth and Plum Sts., were the lowest bidders for improving Fairview Ave. by paving with bitulithic pavements, at $35,451. The Barber Asphalt Paving Co., 1603 First National Bank Bldg., bid $31,588 for bitulithic macadam on the same street. The bids were received on Nov. 12 by M. J. Keefe, Clk. Bd. Pub. Service. C. N. Dannenhower is Ch. Engr.

It is reported that paving with wood block portions of Central and Albany Aves., Ninth and McMillan Sts. is contemplated. Estimated cost, $129,000.

John N. Sullivan, 703 Mercantile Library Bldg., Cincinnati, was the lowest bidder, at $75,003, for paving Clifton Ave. with granite. Bids were received Nov. 12.

Bids are asked until Dec. 10 by the Board of Public Service for grading and paving Werk Road, and for grading and paving with granite blocks Colerain Ave., to cost $24,197 and $67,285, respectively.

TOLEDO, OHIO.—We are officially advised that H. P. STREICHER & CO., of Toledo, has been awarded a contract for 1,900 sq. yds. of bitulithic pavement.

SANDUSKY, OHIO.—We are officially advised that estimates and plans have been submitted to the City Council for paving Monroe St. with various kinds of material. About 30,000 sq. yds. will be paved. A. C. Schultz is City Engr.

NEWARK, OHIO.—Bids are asked until Nov. 24 by the Board of Public Service for constructing 24,000 sq. yds. brick pavement on an 8-in. gravel foundation, and 10,450 lin. ft. sandstone curbing. C. H. Wells is City. Engr.

DELAWARE, OHIO.—Bids are asked until noon, Dec. 8, for improving driveway between Court-house and the Free Public Library by grading, curbing and paving about 1,260 sq. yds. E. S. Mendenhall is County Surv.

PAOLI, IND.—The contract for constructing 7,653 ft. road has been awarded to ELWOOD JOHNSON, of Orleans, Ind. A. B. Ham is County Audr.

KIRKSVILLE, IND.—We are officially advised that the HOOSIER CONSTRUCTION CO., of Indianapolis, Ind., has secured a contract for 2,420 sq. yds. of bitulithic pavement.

LINCOLN, ILL.—It is stated that the contract will soon be let for paving with brick a portion of Ottawa St. James C. Greenslate is City Clk.

CARBONDALE, ILL.—About one mile of vitrified brick paving, with stone curbing and gutters, will be laid in this city, at a cost of $50,000. F. M. Colwell is City Clk.

EVANSTON, ILL.—SMITH & BROWN, 78 La Salle St., Chicago, have contract, at $41,853, for macadamizing Grant and Colfax Sts., and Prairie, Evanston, Elm, Hartrey and Brown Aves. Other bidders were: M. Foley, Evanston, $41,997; J. A. McGarry & Co., 348 Sheffield Ave., Chicago, $42,246.

SALINA, KAN.—We are officially advised that this city has awarded to the KANSAS BITULITHIC CO. a contract for 6,000 sq. yds. of bitulithic pavement.

OMAHA, NEB.—Bids are asked by the County Judge, until noon, Dec. 8, for paving three miles of roads as follows: Road 75 C, 132 B and 38 D, known as "Q" St. Road; about three miles of Road 99 B, known as Calhoun Road; about one mile of Road 30 B and 121 B, known as Leavenworth St. Road. Plans and specifications are on file in the office of D. M. Haverly, County Clk.

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention Engineering News. Have you a copy of our Buyers' Guide? Engineering News Can Help Buyers.

CORE DRILLS.—Hoosick Falls, N. Y.—Geo. H. Nichols, Jr., Hoosick Falls, N. Y., desires to communicate with parties manufacturing core drills.

STONE CRUSHING MACHINERY.—New York, N. Y.—William C. Adams, 35 Nassau St., New York, desires information relative to stone crushing machinery.

CEMENT AND REINFORCING STEEL BARS.—Schenectady, N. Y.—The Hudson Valley Construction Co., Troy, N. Y., is in the market for cement and reinforcing steel bars.

STREET SIGNS.—Auburn, N. Y.—We are in receipt of a letter from J. Walter Ackerman, City Engr., Auburn, N. Y., stating that he desires names of manufacturers of street signs.

CONCRETE BLOCKS.—Westfield, N. J.—Mrs. N. R. Neilson, 115 Kimball Ave., Westfield, N. J. writes us that she desires information relative to concrete blocks for houses and cottages.

BRICK-MAKING MACHINERY.—Slipperyford, Cal.—We are in receipt of a letter from F. F. Fowler, Slipperyford, Cal., stating that he desires information relating to brick making machinery.

CONCRETE BLOCK MACHINES. — San Juan, P. R.—Henry A. Harris, General Inspector of the Bureau of Public Works, San Juan, P. R., desires catalogues from manufacturers of concrete block machines.

CRUSHING MACHINERY.—Jackson, Ohio.—We are in receipt of a letter from W. B. Johnston, Jackson, Ohio, in which he states he is in the market for machinery for crushing soft sand stone into fine sand for foundry MACHINERY.—Winnipeg, Man.—Eade Broth-

FOUNDRY AND STRUCTURAL STEEL MACHINERY.—Winnipeg, Can.—Eade Brothers, Architects, Union Bank Building, Winnipeg, are desirous of receiving catalogues of foundry and structural steel machinery to select additional machinery for the Western Iron Works.

CEMENT.—Beaver Falls, Pa.—The Penn Bridge Co., is in the market for 1000 barrels of cement.

PLANER, MILLING MACHINE, TOOLS AND GAS ENGINE.—New York, N. Y.—Henry Pels & Co., 68 Broad St., New York, are in the market for one 8 × 2½-in. planer, milling machine, grinding tools and gas engine.

MILE POSTS.—Montgomery, Ala.—J. T. Bullen, County Engr., writes us that it is intended to erect mile posts and signs for junctions of county roads. Information regarding iron, stone and concrete mile posts are wanted.

SECOND HAND ROAD MACHINERY.—Richmond, Va.—G. P. Coleman, Ass't. Comr., State Highway Commission, Richmond, Va., writes us that he will soon be in the market for second-hand road machinery, traction engines, dinkies and dump cars.

EXCAVATING MACHINE. — St. Paul, Minn.—George J. Grant, 709 New York Life Bldg., St. Paul, Minn., writes us that he desires to purchase a device to excavate earth from a cut or ditch 50 ft. deep and 30 ft. wide and raise same to the top of the cut.

EQUIPMENT AND SUPPLIES. — Joplin, Mo.—We are in receipt of a letter from the Bartlett Steel Co., Joplin, Mo., stating that it is in the market for a steam hammer, 1500-pound blow; three wall radial drills with 20-ft. arm, automatic, band wheel and lever feeds; one bending and straightening machine with maximum capacity of bending 15-in. beams or channels, the latter to be direct connected motor-driven; one hand jointer and circular rip saw and vertical boring machine for template shop use; vertical boiler arranged with natural gas or oil burners, to generate steam for steam hammers, two 5-ton electric trolley hoists with cages; six 2-ton electric trolley hoists without cages and one hoisting engine for erection, with no less than three nigger heads.

SPRINGFIELD, MO.—J. L. RICHARDSON has contract, at $12,000, for five blocks of brick paving.

KIRKWOOD, MO.—HENRY WINTER, JR., has contract, at $3,419, for reconstructing Main St. About $6,000 will also be spent in improving Webster Ave.

LONOKE, ARK.—SUMPTION PAVING CO. of Favetteville, Ark., has contract for laying 40 blocks of concrete pavement, amounting to $7,000.

TULSA, IND. T.—Bids are asked until noon, Dec. 7, by the City of Tulsa, at the office of the City Recorder, for paving about 15,630 yds. with vitrified brick, constructing 1,514 ft. cement curb. W. D. Abbott is Recdr.; J. G. Patten is City Engr. (Advertised, Engineering News.)

SAN DIEGO, CAL.—G. A. D'Hemecourt, City Engr., has been directed by the Council to prepare and furnish plans for paving Fifth St., from A St. to University Ave., with five inches of asphaltic concrete. Resolutions were also adopted directing the City Engineer to prepare plans for paving C. St., from Fourth to Arctic Sts.; B St., from Fourth to California Sts.; Seventh, B to K Sts., and Third St., from B to K Sts. The material is to be asphalt on asphalt-concrete base.

HAMILTON, ONT.—It is reported that the City Engineer has submitted a report to Board of Works, recommending the paving with brick portions of James, Barton, King, Stuart and other streets. Estimated cost, $192,829.

CHATHAM, ONT.—We are officially advised that a contract for 2,659 sq. yds. of bitulithic pavement has been awarded to the WARREN BITUMINOUS PAVING CO., of Toronto, Ont.

EDMONTON, ALTA.—The City Council has awarded paving contracts amounting to $200,000 to the WARREN BITUMINOUS PAVING CO., Toronto, Ont., and W. H. HARVEY, Vancouver, B. C. The contracts were equally divided.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

SHAWMUT, ME.—The Shawmut Mfg. Co. will erect a large paper and pulp mill here.

CLINTON, MASS.—It is reported that James H. Pickford & Bro. are considering the erection of a woolen factory here. Estimated cost, $6,500.

PROVIDENCE, R. I.—A new mill is to be erected by the Brindle Webbing Co., makers of narrow fabrics, at West Edgewood. The building will be 86 × 120 ft., and will contain about 100 looms.

NORWICH, CONN.—C. MORGAN WILLIAMS has been awarded the contract for the erection of a new car barn to be erected here by the Consolidated Ry. Co. E. L. Pollock is Pur. Agt. Estimated cost, $200,000.

BUFFALO, N. Y.—The Perot Malting Co., of Philadelphia, has awarded to JAMES STEWART & CO. the contract for the erection of a malting plant here. The plant will cost $200,000, will be modern and of fireproof construction.

BUFFALO, N. Y.—The New York State Steel Co., of Buffalo, has awarded to the WM. B. SCAIFE & SONS CO., of Pittsburg, Pa., the contract for a large steel frame building, to be used as a machine and general repair shop.

COHOES, N. Y.—The Fuld & Hatch Co. are planning to erect a cotton yarn mill here to supply the Albany house. It is hoped to secure water power from the Cohoes Co. The mill will measure about 100 × 80 ft.

PATERSON, N. J.—A. & M. Levy, of this city, will erect one of the largest silk mills in the country on Totowa Ave., near the Soldiers' Monument. Two separate buildings will be erected. The main building will be four stories high.

TRENTON, N. J.—W. W. Slack, Arch., 40 East State St., has received bids for the erection of a 3-story brick factory for the Williams Mfg. Co. Power equipment and special machinery will be required.

EDDYSTONE, PA.—Bids have been received by C. B. Keen, Arch., Bailey Bldg., for the erection of a manufacturing plant for the Pennsylvania Iron Works Co. It is to be a 1-story steel frame building, 70 × 240 ft.

KUTZTOWN, PA.—H. K. Deisher, proprietor of the Kutztown Knitting Mills, will build an addition to his factory on Noble St. It will be a 2-story brick structure, 32 × 65 ft. CHESTER RHODE has the contract for the bricklaying, and E. D. MOYER will do the carpenter work.

PHILADELPHIA, PA.—B. KETCHAM'S SONS, 1029 Brown St., have been awarded the contract for erecting a box factory at 1714-16 Randolph St. for the H. H. Shelp Mfg. Co. It is to be a 5-story brick and reinforced concrete building, 60 × 80 ft. Estimated cost, $50,000.

YORK, PA.—Hamme & Leber, Archs., Wiest Bldg., are preparing plans for a 3-story brick factory, 40 × 100 ft., for the W. B. Haines Pump Co. Power and special machinery required.

BALTIMORE, MD.—The Continental Can Co., of Syracuse, N. Y., will erect a large plant near here.

BEDFORD CITY, VA.—An addition of brick, 84 × 58 ft., is to be erected at the Bedford Mills Co.'s plant.

RICHMOND, VA.—The Merchants' Cold Storage & Ice Mfg. Co. has completed arrangements and awarded the contract for the erection of its building, to be five stories high, 71 × 131 ft., and to cost $125,000. Widmann & Walsh, Archs., prepared the plans.

COLUMBIA, S. C.—W. S. Gray, of Woodruff, is to organize a stock company with a capital stock of $200,000, to establish a cotton mill at that place. The site has been purchased.

THOMASVILLE, GA.—Thomasville Ice Co. will increase capacity of ice plant from 25 to 75 tons daily. The company will also build a 1,000-ton cold storage room. Albert M. Dixon is Mgr.

VALDOSTA, GA.—South Georgia Buggy Co. is completing arrangements for the erection of 2-story factory building 200 ft. long, which will be equipped for increasing the capacity.

MIAMI, FLA.—Florida East Coast Railroad will erect small blacksmith and machine shops for Key West extension repair work. J. R. Parrott, St. Augustine, Fla., is Gen. Mgr.

BESSEMER, ALA.—It is reported that Adler Bros., of Birmingham, Ala., are arranging for the establishment of manufacturing plant on property which they own near the septic plant, and will utilize water from latter plant for their purpose.

HUNTSVILLE, ALA.—A contract has been awarded E. L. PATTERSON, of this city, for the erection of an addition to the Abingdon cotton mill, a mile north of this city. The addition will cost $15,000, is 80 × 60 ft., two stories high. Machinery has been ordered for the new building, and the capacity of the plant will be increased nearly 50 per cent.

CORINTH, MISS.—W. C. Frost, of Athens, Ala., is organizing a company to establish a cotton-yarn mill here. The capital will be $100,000, and 5,000 spindles for the production of yarns are to be installed.

MEMPHIS, TENN.—JERRE TOOHEY has been awarded the contract for the erection of a 2-story brick building for the Kraus Bros. Dye Co. It is to be erected on Madison St., near Bayou Gayoso, at a cost of $10,000.

STEUBENVILLE, OHIO.—La Belle Iron Works have awarded contracts for the building of extensive additions to their plant here.

BLOOMINGTON, IND.—The Indiana Tie & Creosoting Co., recently incorporated with $100,000 capital, will, it is announced, receive bids for the erection of a large creosoting plant. Alvin I. Hert, Pres.

EVANSVILLE, IND.—The Claytonia Brick & Clay Products Co. has incorporated with $50,000 capital, and will erect a large plant near this city. George M. Uhl is Pres.

KOKOMO, IND.—The Kokomo Knitting Co. has purchased a site on High St., and will soon ask for bids for the erection of a 4-story building, 66 × 132 ft.

MUNCIE, IND.—The Muncie Auto Parts Co. has increased its capital stock $50,000, for the purpose of erecting a large addition to its plant. Harry L. Hooke is Secy.

MILWAUKEE, WIS.—A lace factory will be erected by Emil O. Pretzoldt, proprietor of the American Art Embroidery Co., on the lot immediately east of the Montgomery Building, on Michigan St.

Plans will be ready for bids about Dec. 15 for the erection of a 7-story factory and warehouse for Wm. Berger & Co. It is to be 100 × 140 ft. Noted in issue of Nov. 15.

DES MOINES, IOWA.—The C. E. Eastman Co., Archs., Observatory Bldg., has completed plans for the erection of a 5-story building, 280 × 66 ft., for the Des Moines Casket Co. Estimated cost, $50,000.

MINNEAPOLIS, MINN. — Bertrand & Chamberlain, Archs., Bank of Commerce Bldg., have completed plans for the erection of a factory for the Self-Threading Needle Co., to be erected at Colfax Ave. and Lake St. It is to be a 3-story building, 400 × 30 ft. Three parallel buildings are to be erected.

KANSAS.—Haebler & Co., 79 Wall St., New York, contemplate the erection of a cement plant in Kansas or Indian Territory, and desire an engineer who is competent to design, erect and manage such a plant. Address Haebler & Co. for details.

BALLINGER, TEX.—W. J. Miller and G. M. Vaughn contemplate the erection of a 40-ton ice and cold storage plant.

PORT NECHES, TEX.—The Texas Co. will make additions and improvements to its oil refinery here, to cost $2,000,000.

ASTORIA, ORE.—C. B. Trescott will erect a plant for the canning of smoked and pickled salmon.

MONCTON, N. B.—Bids are asked until 4 p. m., Dec. 10, by L. K. Jones, Secy. of the Dept. of Railways and Canals, at Ottawa, Ont., for construction and erection of locomotive shops in the Intercolonial Ry. yards here. A. E. Killam is Inspector of Bridges and Buildings, Moncton. H. R. Emmerson is Minister of Railways and Canals.

HALIFAX, N. S.—It has been announced that the Intercolonial Ry. will erect a roundhouse and workshops in Halifax, and the site for the buildings has been secured.

WINDSOR, ONT.—The Fink, Lee & Peabody Overall Co. will establish an overall factory in this city at once. W. M. Fink, Detroit, is Pres.

BARRIE, ONT.—On Nov. 29 a by-law will be voted to grant concessions to the Dyment Foundry Co. to rebuild, at a cost of $30,000.

GODERICH, ONT.—The Goderich Wheel Rigs Co. will erect a $100,000 factory here, having been granted a $50,000 bonus by the town.

BRANTFORD, ONT.—The Pratt & Letchworth Malleable Iron Co., whose headquarters are at Buffalo, N. Y., will remove its Brantford plant to Montreal.

REGINA, SASK.—The Northwest Threshing Co., of Stillwater, Minn., will establish provincial headquarters at Regina. A site has been purchased for the erection of a warehouse.

FERNIE, B. C.—Bids are asked until Dec. 18 by the Fort Steele Brewing Co., Ltd., for erecting, complete, a brewery with a capacity of 30,000 bbls. a year. The building is to be constructed of brick and iron on cement foundation. Albert Mutz is Pres.; John B. Smith is Secy.

NANAIMO, B. C.—A cold storage plant, to cost $50,000, will be erected here by the Department of Marine and Fisheries. Ralph Smith, M. P., Nanaimo, is interested. J. E. F. Prefontaine is Minister of Marine and Fisheries.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

WHARF.—St. Catharines, Ont.—City may construct a turning table and wharf on the Welland Canal at this point.

DAM AND HEAD WORKS.—Mitchell, Neb. —U. S. Reclamation Service project. See Water-Supply and Irrigation.

TELEPHONE EXTENSION.—Hymers, Ont. —George Hymers, Mayor, is negotiating with Port Arthur for an extension of its municipal telephone line to this town.

LEVEE.—New Orleans, La.—Bids are asked for constructing about 75,500 cu. yds. of new levee at Torras, La., in the Atchafalaya Levee District, until Nov. 11. Capt. J. F. McIndoe, U. S. Engrs.

ROCK TUNNEL.—Harrisburg, Pa.—Mason D. Pratt, C. E., Harrisburg, may be addressed regarding letting of contract to excavate 1,000 ft. of rock tunnel. (Advertised, Engineering News.)

CANAL.—Ottawa, Ont.—The Department of Railways and Canals will shortly call for bids for the construction of a canal from Newmarket, Ont., to Hollands Landing, Ont. F. Gourdeau, Secy.

TELEPHONE LINE.—Quebec, Que.—A franchise has been granted by the city of Quebec to the La Compagnie de Telephone de Bellechasse, of Levis, giving it the right to operate in this city.

FISH HATCHERY.—Ottawa, Ont.—The Department of Public Works is having plans prepared for a fish hatchery to be erected at Wiarton, Ont. Approximate cost, $12,000. Fred. Gelinas, Secy.

ROCK REMOVAL.—New York, N. Y.—Bids are asked until noon, Dec. 21, by Col. D. W. Lockwood, U. S. Engrs., Army Bldg., for removing long rock in harbor at Echo Bay, N. Y. (Advertised, Engineering News.)

FIRE ALARM BOXES.—Vancouver, B. C. —The Fire, Water and Light Committee has decided to install 30 additional fire alarm boxes, bids for which will be called at once. Address Chief Carlisle or Alderman Rogers.

SUBWAY SUBSTRUCTURE.—Toronto, Ont. —The GODSON CONTRACTING CO., of Toronto, Ont., has been awarded contract, at $48,369, for building the Lansdowne Ave. subway substructure. Thos. McQueen, Secy. Bd. Control.

TELEPHONE EXTENSION. — Rosthern, Sask.—The Bell Telephone Co. is installing a system in this town and will build long distance lines to Duck Lake and Hague. F. C. Paterson is District Manager, Winnipeg, Man.

RAILROAD TIES.—Detroit, Mich.—The STANDARD TIE CO., of Detroit, has secured a contract for the delivery of from 3,000,000 to 6,000,000 railway ties a year, for a long term of years, to the Gould lines, especially to the Missouri Pacific.

MONUMENT.—Mt. Vernon, Ind.—Bids are asked by the Commissioners of Posey County until 3 p. m., Jan. 9, for the erection and completion of a Soldiers' and Sailors' Monument on the court-house grounds. S. G. Howard, County Audr.

DREDGING.—Mt. Pulaski, Ill.—Bids are asked until noon, Dec. 13, at office of Frank L. Tomlinson, Mt. Pulaski, for dredging or cleaning out Lake Fork, 16 4-5 miles. The approximate quantity of earth to be removed is 749,385 cu. yds. (Advertised, Engineering News.)

WHARF, ETC.—Fort Stevens, Ore.—Bids were received on Nov. 12 for construction of wharf, approach and wharf shed at Fort Canby, Wash. Lieut. Cooper, Constructing Q. M., Fort Stevens, Ore. Ferguson & Houston, of Astoria, Ore., were lowest bidders, at $6,022.

BARGES.—Vicksburg, Miss.—Bids are asked until noon, Dec. 20, for construction of six wooden, four creosoted or three steel material barges for use in Third District, Improving Mississippi River. Capt G. M. Hoffman, U. S. Engrs. (Advertised, Engineering News.)

DREDGING. — Boston, Mass. — Bids for dredging anchorage basin in Dorchester Bay were opened on Nov. 9 by the Harbor and Land Commissioner. The Eastern Dredging Co., of Boston, bid 23.3 cts. per cu. yd., and the Bay State Co. 27¾ cts. Estimated quantity is 55,000 cu. yds.

CEMENT.—Washington, D. C.—The Commissioners of the District of Columbia have awarded contract for furnishing 10,000 bbls. of Portland cement, half in wood, half in sacks, to the LEHIGH PORTLAND CEMENT CO., Allentown, Pa., at its bid of $1.79 per bbl. in wood, and $1.84 in sacks.

GREEN-HOUSES.—New York, N. Y.—Bids were received as follows on Nov. 8 for erection and completion of greenhouses in Central Park, opposite 104th St. and Fifth Ave.: Pearson & Co., $20,475; J. M. Knopp, 222 Columbus Ave., $21,741; Lord & Burnham, 1135 Broadway, $32,000; L. Wechsler, 1135 Broadway, $21,740.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Dec. 4, by the Bureau of Supplies and Accounts, Navy Dept., for furnishing at various naval stations and navy yards a quantity of miscellaneous naval supplies. Bids are asked until Dec. 11 and Dec. 18 for similar supplies. H. T. B. Harris, Paymaster-Gen., U. S. N.

DITCH.—Breckenridge, Minn.—Martin Aalberg, of Henning, has prepared plans for County Ditch No. 6, which will contain 189,000 cu. yds., and cost about $23,000. Bids for construction will probably be called for in January. He has also surveyed and is preparing plans for Ditch No. 7, which will be in Andrea Township, Wilkin County, and is to be ten miles in length. R. R. Glover is City Audr., Breckenridge.

MONUMENT.—Sewells Point, Va.—The Supervising Architect of the Treasury Department, Washington, has awarded contract for constructing a monument to commemorate the first settlement at Jamestown, for the exposition there next year, to NORCROSS BROS. CO., Worcester, Mass., at the net amount of $46,300. The contractor will use Mascoma, N. H., light pink granite and will complete the work by May 1, 1907.

NEW TOWN.—Ambridge, Pa.—The Jones & Laughlin Steel Co. will make an appropriation of $5,000,000 for furnaces and mills on the Ohio River, 20 miles south of Pittsburg, opposite the town of Ambridge, of the American Bridge Co. The property was purchased some time ago, and a new town will be laid out soon, it is said. The plant will consist of four 500-ton blast furnaces, a big blooming mill, and a number of Talbot open-hearth furnaces. In addition, 300 coke ovens will be built.

GRADE CROSSINGS.—Albany, N. Y.—The State Board of Railroad Commissioners has issued the following orders for the elimination of grade crossings: The West Shore R. R. Co. must construct a subway to carry its tracks under the Wolf Road crossing in town of New Scotland, Albany County. The New York Central & Hudson R. R. R. Co. must construct a bridge at the Grant Ave. crossing, town of Sennet, Cayuga County, to carry the highway over the tracks. The Lehigh Valley Railroad must construct a bridge at the crossing at East Chemung St., in the village of Waverly, to carry the highway over the tracks.

BUILDING WALL.—Richmond, Va.—Bids were opened Nov. 19, at the office of the Army Quartermaster, Washington, D. C., for the removing of the wall around the National Cemetery, Richmond, Va., and its reconstruction. Bids were as follows: (a) A. Netherwood, Richmond, Va.; (b) Perkins & Brown, Richmond, Va. Item 1, removing old wall, per lin. ft.; (a) 60 cts.; (b) $1.25; item 2, building new wall of old material, (a) $3.75; (b) $5 per cu. yd.; item 3, building new wall of new material, (a) $6.80; (b) $8. Bidder (b) also bid on new coping. $1.45 per lin. ft.; and on excavating trenches for wall, 60 cts. per cu. yd.

DAM.—Roscoe, Ohio.—Bids were received on Nov. 14 (re-advertisement) by the State Board of Public Works, Chas. E. Perkins, Ch. Engr., Columbus, for constructing a dam across the Walhonding River, six miles west of Roscoe. Separate bids will also be received for repairing the present dam. The bids were: J. N. Kissner, West Lafayette, $22,806; W. H. Schott, Chicago, Ill., $24,456; the Westhafer Co., New Philadelphia, $34,498, and W. M. Brode, Newcomerstown, $32,626. On the repair work the bidders were: W. H. Schott, $7,475, and the Westhafer Co., $7,269. The engineer's estimate was $23,198.50, and it will require 2,200 bbls. of cement.

DOCK EQUIPMENT.—Cleveland, Ohio.—Improvements aggregating more than $100,000 are to be made the coming winter to the unloading equipment of the Nypano dock, in the old river bed, which is operated by the firm of Pickands, Mather & Co. These improvements will include the installation of four Brown electric unloaders, the construction of an electric power-house to furnish the power for these and other electric appliances on the dock, and the shifting of railroad tracks on the dock to eliminate the present sharp curve in the terminal of the main track, which at present causes delay in the handling of cars.

OIL PIPE LINE.—Beaumont, Tex.—The Texas Company, which is one of the largest oil producing and refining concerns in the state, has placed an order with the National Tube Co., of Pittsburg, Pa., for 430 miles of 8-in. iron pipe to be used in building an oil pipe line from Tulsa, Ind. T., to Port Arthur, Tex. It is stated that the delivery of the pipe will begin at once and that the construction of the whole line will be completed within a few months. The contract for laying the pipe has not yet been let. About $6,000,000 is involved in the purchase of the pipe and the construction of this pipe line. J. S. Cullinan is President of the company.

CONCRETE BUILDINGS.—Trinidad, Colo. —The American Smelting & Refining Co., Boston Bldg., Denver, has started a new town near Trinidad and contracted for the erection of 80 houses, to cots $500,000. Every building in the town will be of concrete. The only wood to be used will be for roofs and the inside fittings. The most pretentious building will be the general store, costing $17,000. It is the aim of the company to prevent the degeneration of the coal camp into a shanty town. All the land for miles around has been bought and foreign workmen will be prevented from burrowing in the hillsides or building tin-can huts. The Dupont Powder Co. is to build a town and factory 20 miles south of Denver.

ORDNANCE.—Washington, D. C.—Bids were opened Nov. 14, at the Office of the Chief of Ordnance, Navy Dept., Washington, D. C., for (a) 1,000 6-in. forged steel armor-piercing shells; (b) 1,000 7-in. same; (c) 1,000 8-in. same; (d) 1,000 12-in. same. This is the first time bids have ever been asked by the Navy Ordnance Bureau for projectiles. Bids were as follows: Bethlehem Steel Co., South Bethlehem, Pa., (a) $43.25 each; commence delivery in 210 days; complete 15 per week thereafter; (b) $67; 290 days; 10 per week; (c) $103; 382 days; 10 per week; (d) $328.60; 285 days; 10 per week. Firth-Sterling Steel Co., Home Life Building, Washington, (a) $25; 150 days; 20 per week; (b) $45; 150 days; 20 per week; (c) $62.50; 150 days; 20 per week; (d) $190; 150 days; 23 per week. Midvale Steel Co., Philadelphia, (a) $41.50; 190 days; 400 delivered every 20 weeks thereafter; (b) $65.50; 275 days; 250 every 30 weeks; (c) $101.10; 370 days; 250 every 38 weeks; (d) $346.70; 310 days, 200 every 33 weeks.

CANAL WORKS.—Albany, N. Y.—As a result of the opening of bids for Barge Canal contracts on Nov. 8 and 9, N. V. V. Franchot, Supt. of Public Works, has awarded Contract No. 19 to the GREAT LAKES CONSTRUCTION CO., Chamber of Commerce Bldg., Buffalo, N. Y., for $1,000,497. The bid was reduced from $1,002,171. The work includes excavation and constructing culverts and other structures in Niagara County.

Contract No. 25 was awarded to the ATLANTIC, GULF & PACIFIC CO., Park Row Bldg., New York, for $1,754,236. This work includes the excavation of the canal, constructing spillways, locks, bridge substructures, etc., in Washington County.

Contract No. 27 was awarded to the KINSER CONSTRUCTION CO., 1609 Railway Exchange, Chicago, Ill., for $972,210. This work includes the excavation of the canal, constructing three locks, a concrete arch bridge, bridge substructure, etc., in Washington County.

The one bid received for Contract No. 26, that of J. W. Cronin, Syracuse, N. Y., was rejected as it was greatly in excess of the engineer's estimate. Itemized bids received for these contracts were given last week under Contract Prices.

CANAL WORK.—Albany, N. Y.—Bids are asked by N. V. V. Franchot, Supt. Public Works, until noon, Dec. 19, on the following three contracts for Barge Canal work:

Contract No. 16, Erie Canal, Section 1; Champlain Canal, Sections 2 and 3.—For furnishing and erecting in place various steel highway bridge superstructures. The work is located in Saratoga and Washington Counties. The specifications include, among other things, 1,291,000 lbs. structural steel. The engineer's estimate is $70,719.

Contract No. 17, Erie Canal, Section 3.—For the construction of the following structures on the Mohawk River: Dam 7, Lock 11, at Amsterdam, Sta. 2201+46; Dam 8, Lock 12, at Tribes Hill, Sta. 2443+17; and incidental work appertaining thereto. Length of canal included within the limits of these locks and their approaches, 0.4 mile. This work is located in Montgomery County. The largest items in the specifications are: 185,000 cu. yds. all excavation; 33,000 cu. yds. forming embankment; 48,000 cu. yds. second-class concrete; 2,522,000 lbs. structural steel; 172,000 lbs. metal reinforcement; 122,000 wrought-iron chains. Engineer's estimate is $895,000.

Contract No. 18, Erie Canal, Section 4.—For excavating the canal and protecting its sides between Station 3868+26, about 0.5 mile east of Mindenville, and Sta. 4060, at Castle Creek; constructing Lock No. 16, with appertaining structures, abutments and approaches for two bridges, a dive culvert, guard gate masonry, a retaining dam for stream entrance at Castle Creek, a temporary canal at Mindenville, and other incidental work. Length of contract, 3.63 miles. This work is located in Montgomery and Herkimer Counties. The largest items in the specifications are: 26,000 cu. yds. grubbing; 937,000 cu. yds. all excavation; 500,000 cu. yds. forming embankment; 30,000 cu. yds. second-class concrete; 30,000 cu. yds. wash wall; 24,000 lbs. structural steel; 73,500 lbs. metal reinforcement; 343,000 lbs. cast-iron pipe, laid; 16,500 lbs. iron castings, plain. Engineer's estimate is $785,380.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

*WATER TUNNEL, ETC.—Chicago, Ill.—Bids were received as follows on Nov. 3 by the Department of Public Works, William L. O'Connell, Comr., for furnishing material and constructing a 14-ft. water tunnel, including certain shafts; also a permanent intake crib and a temporary crib and working shaft, tunnel to be known as Section 3, Southwest Land and Lake tunnels. The bidders were: (A) Joseph Hanreddy, 100 Washington St., with cement, $1,450,000; (b) Jackson & Corbett Co., Clark and Polk Sts., with cement, $1,550,000; with brick, $1,675,000:

BIDS RECEIVED ON NOV. 3 FOR WATER-TUNNEL, ETC., CHICAGO, ILL.

	(A)	(B)
Tunnel:		
12,180 lin ft. of 14-ft. tunnel in rock lined with cement concrete..	$84.00	$79.00
12,180 " of 14-ft. tunnel in rock lined with four rings of brick.	....	89.00
Shore Shaft:		
65 lin ft. earth (for cement lined tunnel).....	150.00	260.00
65 " earth (for brick lined tunnel).....	....	270.00
77 " rock (for cement lined tunnel).....	150.00	290.00
77 " rock (for brick lined tunnel).....	....	300.00
Intake Crib, including two permanent shafts and Gates:		
700 cu. yds. of granite masonry.....	50.00	69.00
1,960,000 ft. B. M., pine or hemlock timber.....	48.00	80.00
65,000 " oak timber.....	65.000	80.00
80,000 " yellow pine timber.....	55.00	80.00
420,000 lbs. drift bolts.....	.05¼	.06
30,000 " machine bolts and washers, except those connected with trusses.....	.06	.08
10,000 " boat spikes.....	.04½	.06
170,000 " steel trusses, bracing, tie rods and holding-down bolts.	.05¾	.08
9,000 " c.-i., exclusive of shafts, gates and gate mechanism..	.06	.05
424,000 " steel shells, diaphragms, brackets, etc.....	.06½	.09
380 cords of 100 cu. ft. each of rip-rap.....	8.00	11.00
4,620 cu. yds. concrete.....	6.95	9.00
126 lin ft. c.-i. shaft, including gate sections.....	300.00	150.00
97 " brick or concrete lined shaft in earth.....	200.00	300.00
64 " concrete lined shaft in rock.....	200.00	325.00
12 gates with guide and hoisting gear, complete and in place ready for use in the intake shafts for lump sum of.	22,525.00	10,800.00
For intermediate crib and temporary working shaft, including concrete and earth filling of shaft, and removal of crib and portion of shaft above a level 27 ft. below city datum, lump sum of...	99,000.00	155,000.00

*CEMENT.—Lascruces, N. Mex.—Bids were received as follows on Nov. 1 by the U. S. Reclamation Service for 2,500 bbls. of Portland cement, Rio Grande Project, N. Mex., deliveries November and December, 1906; (a) price per bbl.; (b) place of delivery: Kansas Portland Cement Co., Iola, Kan., (a) $1.73, (b) Independence, Kan.; R. J. Clark, 409 Cooper Bldg., Denver, Colo., (a) $1.73, (b) Independence, Kan.; Indian Portland Cement Co., Neodesha, Kan., (a) $1.73, (b) Neodesha, Kan.; Portland Cement Co., Denver, Colo., (a) $2.01, (b) Portland, Colo.

SEWER.—Boston, Mass.—Bids were received as follows by the Metropolitan Water and Sewerage Board on Nov. 9, for Section 85, extension of high-level sewer, South Metropolitan System, Brighton: William M. Brown, Engr. Sewerage Works. (a) 6,350 lin. ft. earth or rock excavation in tunnel 5 ft. 9 ins. × 6 ft. sewer per lin. ft.; (b) 800 cu. yds. brick masonry Portland in shafts per cu. yd.; (c) 7,000 cu. yds. concrete masonry, Portland, in tunnel per cu. yd.; (d) total. All were local bidders: Jones & Meehan, (a) $99, (b) $20, (c) $12, (d) $337,650; James J. Coughlan Construction Co., (a) $25, (b) $25, (c) $23, (d) $327,250; Hugh Nawn Contracting Co., (a) $34.75, (b) $18, (c) $14, (d) $324,062; Charles R Gow Co., (a) $28, (b) $15, (c) $10, (d) $315,800; Patrick McGovern, (a) $38.25, (b) $18, (c) $9.50, (d) $314,787; Coleman Bros., (a) $13.50, (b) $25, (c) $14.50, (d) $309,025; Metropolitan Contracting Co., (a) $34.90, (b) $15, (c) $10, (d) $296,115; T. H. Gill & Co., (a) $20.85, (b) $14, (c) $9.95, (d) $206,882.

CONCRETE STRUCTURES. — Mitchell, Neb.—There was but one bid received on Nov. 1 by the U. S. Reclamation Service for concrete structures at head of Interstate and Fort Laramie Canals, North Platte Project. It was submitted by G. F. Atkinson. The Secretary of the Interior has rejected this bid as excessive, and has authorized the prosecution of work at the head-gates by force account. It is necessary to advance this portion of the work as rapidly as possible in order that water may be delivered in the spring of 1907. The remainder of the work will be readvertised:

10,000 cu. yds. dry excav., Class 1..		$0.20
2,000 " " " 2..		1.90
15,000 " " " 3..		1.90
5,000 " wet excav., " 1..		3.00
1,500 " " " 2..		4.80
2,000 " " " 3..		4.80
4,400 " concrete, " 1..		6.75
1,800 " " " 2..		10.90
500 " concrete revetment..		11.95
500 " concrete apron.....		11.95
500 " grouted paving.....		8.90
300 " boulder rip-rap.....		5.00
165,000 lbs. hauling and plac'g metal.		0.02
1,500 cu. yds. gravel fill.....		3.00
10,000 ft., B. M., lumber.....		70.00
Total		$142,720

GRADING.—Boston, Mass.—Thirteen bids were received on Nov. 5 by the Metropolitan Park Commission, John R. Rablin, Engr., for building to sub-grade Lynn Fells Parkway, from Middlesex Falls Reservation to Green St., Stoneham and Melrose, contract for which has been awarded to the lowest bidders, ROWE & PERINI, South Framingham, Mass., at $33,756. Their bids in detail was as follows 40,000 cu. yds. earth grading, 26 cts.; 11,000 cu. yds rock grading, $1.70; 800 lin. ft. 10-in. pipe drain, 75 cts.; 760 lin. ft. 12-in. pipe drain, 85 cts.; 560 lin. ft. 15-in. pipe drain, $1.25; ten cu. yds. rubble masonry, $6; one reinforced concrete culvert, 6′ × 3′ 3″ × 80′, $950; one reinforced concrete culvert, 6′ × 4′-6′. × 90′, $1,700.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

WHITE LEAD.—Panama. — Bids were opened Nov. 15, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for 500,000 lbs. white lead. Bids were: National Lead Co., New York, $30,500; 10 to 30 days. Southern Exporting Co., New Orleans, $31,450; 15-60 days, foreign. Staffer, Eshleman Co., New Orleans, $28,750; 30 to 60 days. Trescott Boat & Auto Supply Co., St. Joseph, Mich., $40,000; 15-80 days. Contract has been awarded to the NATIONAL LEAD CO.

EXPLOSIVES.—Panama.—Bids were opened Nov. 15, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for (a) 500,000 lbs. saltpeter dynamite; (b) 40,000 electric exploders. Bids were as follows: Colonial Trading Co., New York, (a) $55,500, 75 days; LAFLIN & RAND POWDER CO., New York, $57,000, 55 days; (b) $2,858, 55 days (awarded contract); National Powder Co., New York, (a) $58,750, 3 to 10 days; Star Electric Fuse Works, Wilkes-Barre, Pa., (b) $3,169, 12-20 days, f. o. b. factory.

STEEL DERRICK.—Philippine Islands.—Bids are asked until 11 a. m., Dec. 22, by the Bureau of Yards and Docks, Navy Dept., for a 20-ton steel derrick for the naval station, Olongapo, P. I. Mordecai T. Endicott, Ch. of Bureau. Specifications are on file at New York office of Engineering News. (Advertised, Engineering News.)

CIVIL SERVICE EXAMINATIONS

ARCHITECTURAL AND STRUCTURAL STEEL DRAFTSMAN.—San Francisco, Cal.—The U. S. Civil Service Commission announces an examination on Dec. 5-6, to secure eligibles to fill a vacancy in the position of draftsman (architectural and structural steel), at $125 a month, in the office of the engineer, Twelfth Light-House District, San Francisco, Cal.; a vacancy in the position of architectural draftsman, $1,800 a year,

United States Military Academy, West Point, N. Y., and vacancies as they may occur in any branch of the service requiring similar qualifications. Age limit, 20 years. Application Form 1312.

ALBANY, N. Y.—The State Civil Service Commission will hold examinations Dec. 15 for the following positions: Architectural Draftsman, $15 to $25 a week; Assistant Civil Engineer, $5 to $6 a day; Bridge Designer, $1,500 to $1,800; Bridge Draftsman, $1,200 to $1,500; Civil Engineering Draftsman, $4 to $5 a day; Tracer, $40 to $75 a month. The last day for filing application forms for these positions is Dec. 10. Full information and application forms for any of these examinations may be obtained by addressing Charles S. Fowler, Ch. Examiner of the Commission, at Albany. (Advertised, Engineering News.)

HYDROGRAPHIC SURVEYOR.—Cuba.—An examination will be held on Dec. 12, by the U. S. Civil Service Commission, to secure eligibles to fill several existing vacancies in the position of hydrographic surveyor, at a salary of from $1,200 to $2,200, and recorder at $1,000 a year, in the Navy Department, and vacancies as they may occur in any branch of the service requiring similar qualifications. The specific positions to be filled are in connection with the work of surveying Almirante Bay and other surveying work on the south coast of Cuba, which work the Department states will last for probably two or three years. Age limit, 20 years. Application form 1312.

INDUSTRIAL NOTES.

EXHIBITORS AT THE CONVENTION OF THE ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION AT CHICAGO.

American Steel & Wire Co., Chicago.—Fencing.

American Track-Barrow Co., Lowell, Mass.—Barrow and trucks.

American Valve & Meter Co., Cincinnati, Ohio.—Switchstand.

Atlas Railway Supply Co., Chicago.—Rail joints and tie-plates.

B. & B. Fence Co., Peru, Ind.—Fence posts and stay.

Belle City Malleable Iron Co., Racine, Wis.—Anti-creeping device and tie-plates.

Buda Foundry & Mfg. Co., Chicago.—Track tools and supplies.

C. Buhrer, Sandusky, Ohio.—Steel ties.

Chicago Steel Tape Co., Chicago.—Tapes and lining rods.

Cleveland Frog & Crossing Co., Cleveland, Ohio.—Frogs and anti-creeping device.

Cook Railway Appliance Co., Kalamazoo, Mich.—Track tools and cattleguards.

Dilworth, Porter & Co., Pittsburg, Pa.—Spikes and tie-plates.

Dressel Railway Lamp Co., New York.—Switch lamps.

L. Dunn, St. Paul, Minn.—Safety switch appliances.

Fairbanks, Morse & Co., Chicago.—Motor section cars and track tools.

Grip Nut Co., Chicago.—Lock nuts.

Hayes Track Appliance Co., Geneva, N. Y.—Derails.

Hussey, Binns Shovel Co., Pittsburg, Pa.—Tamping shovels, etc.

O. F. Jordan, Chicago.—Ballast spreading leveling car.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.—Track tools and hand cars.

Locomotive Appliance Co., Chicago.—Derails and wrecking frogs.

Luther Brothers, North Milwaukee, Wis.—Tool grinder.

McCord & Co., Chicago.—Bumping post.

McMyler Mfg. Co., Cleveland, Ohio.—Switchstands.

National Lock Washer Co., Newark, N. J.—Nut locks.

Pennsylvania Steel Co., Steelton, Pa.—Switches, frogs and switchstands.

Quincy, Manchester, Sargent Co., Chicago.—Track appliances.

Rail Joint Co., New York.—Ordinary and insulated joints.

Railroad Supply Co., Chicago.—Tie plates.

Railway Specialty & Supply Co., Chicago.—Lock nut and anti-creeping device.

Ramapo Iron Works, Hilburn, N. Y.—Switchstands.

J. T. Ryerson & Son, Chicago.—Jacks and tube rattler.

Verona Tool Works, Pittsburg, Pa.—Track tools.

Western Association of Inventors, Corona, Cal.—Track construction.

A. J. Wilson, Chicago.—Nut lock.

ARTHUR KOPPEL COMPANY advises that it has moved to the Machesney Bldg., 225 Fourth Ave., Pittsburg.

THE WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis., reports that it has built the largest steel dam in the world at Helena, Mont.

A. D. GRANGER CO. has appointed W. E. S. Dyer manager of its Philadelphia office. Mr. Dyer was formerly manager of the Reeves Engine Company.

THE H. W. JOHNS-MANVILLE CO. secured the contract for covering the buildings of nearly the entire plant of the North American Manufacturing Company, at Newell, W. Va., with its "J.-M." asbestos roofing.

THE REINFORCED CONCRETE PIPE CO., Jackson, Mich., reports that it has put in some of the large pipe for the Allis-Chalmers Co., at West Allis (Milwaukee); another job has been done at Baltimore, Md., and a third for the St. Louis & San Francisco Ry. at New Orleans, La.

THE AMBURSEN HYDRAULIC CONSTRUCTION CO. is executing the work of replacing by a concrete-steel flume, 15 ft. deep and 24 ft. wide, on rock foundations, that section of the canal recently washed out on the Bull's Bridge plant of the New Milford Light & Power Co.

THE WHEELER CONDENSER & ENGINEERING CO., New York, states that Mr. William S. Love, Manager of the Chicago office, has been appointed General Sales Manager, with offices at 42 Broadway, New York. Mr. Grant Beebe will succeed him as Manager of the Chicago office.

THE CENTRAL INSPECTION BUREAU, 17 State St., New York, has secured the services of Mr. Jas. F. McGregor, of Detroit, Mich., who will represent them in the state of Michigan, with offices in the Majestic Bldg., Detroit. This company is equipped to furnish inspectors for all classes of equipment, cars, rails, ties, etc., for electric and steam roads.

THE CROCKER-WHEELER CO. reports the following list of recent sales: One 100-KW., 120-volt, 900 r. p. m. D. C. generator to the De Laval Steam Turbine Co., of Trenton, N. J.; one 1,000-KW. D. C. generator to the National Tube Co., of McKeesport, Pa.; three transformers to the Southern Railway Co., Nashville, N. C.; one 25-HP., 250-volt D. C. generator and 22 D. C. motors from 2 to 50 HP. to H. L. Judd Co., of Wallingsford, Conn., all of 230 volts.

THE WESTINGHOUSE MACHINE COMPANY has on order for the Philadelphia Rapid Transit Company's Wyoming Ave. power station: three turbine generator units, each of 6,000 KW. capacity; these, with the one now in course of erection, will make four units of 6,000 KW. capacity each in this station. Six 1,500 KW. Westinghouse turbine generator units have been operating in this station for the past year, and it is their extremely satisfactory performance that led to the placing of the order for the four 6,000 KW. units, making this one of the largest power stations in the country.

THE KERR TURBINE CO., of Wellsville, N. Y., through its Philadelphia agency, B. Rommers & Sons, 328 The Bourse, has secured the contract for the new power plant to be installed in the Bennett Bldg., New York. The power plant, to consist of steam turbine generators of a combined capacity of 200 KW., will be made up of two 75-KW. Burke generators, 125 volts each, direct connected to a 24-in. 6-stage Kerr turbine, and one 50-KW. 125-volt Burke generator direct connected to an 18-in. 6-stage Kerr turbine. The Kerr Turbine Co. maintain a permanent exhibit in operation in the Exhibition Department of the Philadelphia Bourse.

THE CANADIAN WHITE COMPANY, Montreal, reports the following as a partial list of contracts in hand and recently completed: Office building, Federal Life Assurance Co., Hamilton, Ont.; storage warehouse, Terminal Warehouses & Cartage Co., Montreal; apartment house, Linton Apartments; theater, Walker Syndicate, Winnipeg; car barns, Montreal Street R. R. Co.; bank, Royal Bank of Canada, St. John, N. B.; power-house, Montreal Street Railway Co.; race track buildings, Montreal Jockey Club; industrial plant, Canadian Iron & Foundry Co., Ft. William, Ont.; power-house, Montreal Light, Heat & Power Co., and the construction of 140 miles of railway for the Grand Trunk Pacific Railway Co.

TRADE PUBLICATIONS.

EXPANDED METAL.—The General Fireproofing Co., Youngstown, O. Two folders; paper; illustrated.

One of these folders shows diamond-mesh material and its application in sewer and foundation work. The other contains particulars of diamond-mesh and herringbone-mesh material.

VISES.—The Pittsburgh Automatic Vise and Tool Co., Pittsburgh, Pa. Paper; 6½ x 4 ins.; pp. 28; illustrated.

The various kinds and sizes of vises made by this Company are presented here in a neat, attractive way. The range of movement is two complete circles, and the swivels are graduated by a scale.

BLACKSMITH APPARATUS. — Lancaster Forge & Blower Co., Buffalo, N. Y. Catalogue No. 28. Paper; 7 x 6½ ins.; pp. 20; illustrated.

Forges, blowers, drills, tire upsetters, angle cutters, punches and shears are illustrated and briefly described in this folder. In each case the principal dimensions, weight, and price are given.

VALVES.—Western Tube Co., Kewanee, Ill. Paper; three circulars; 5 x 7½ ins.; pp. 4, 4, and 8; illustrated.

The two four-page circulars relate to globe and angle valves for medium and high pressures respectively. The third discusses the material used in making these valves and the experiments made for the purpose of obtaining a high-class metal.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 184.

SEALED PROPOSALS, endorsed "Proposals for Derrick," will be received at the Bureau of Yards and Docks, Navy Department, Washington, until 11 o'clock a. m., December 22, 1906, and then and there publicly opened, for a 20-ton steel derrick for the naval station, Olongapo, P. I. Plans and specifications will be furnished by the Bureau. MORDECAI T. ENDICOTT, Chief of Bureau. November 16, 1906. 21-2t

U. S. ENGINEER OFFICE, Vicksburg, Miss., Nov. 20, 1906.—Sealed proposals for construction of six wooden, four creosoted or three steel material barges for use in Third District, Improving Mississippi River, will be received at this office until 12 o'clock, noon, Dec. 20, 1906, and then publicly opened. Information furnished on application. G. M. HOFFMAN, Capt., Engrs. 21-4t

DREDGING.

Mt. Pulaski, Ill.

Public notice is hereby given that the undersigned Drainage Commissioners of Lake Fork Special Drainage District in the County of Logan and State of Illinois will receive sealed bids until 12 o'clock noon, December 13th, A. D. 1906, when the same will be publicly opened at Law Office of Frank L. Tomlinson, Mt. Pulaski, Logan County, Illinois, for dredging or cleaning out Lake Fork, beginning at what is known as "The Forks" and continuing down stream to the Elkhart and Mt. Pulaski, bridge, or for a distance of 16.83 miles. The approximate quantities of earth to be removed is 749,385 cubic yards. A certified check or cash deposit in the sum of $2,500.00 must accompany each bid. If certified check is given, it must be upon some bank in Logan County, Illinois, the same to be retained until contracts are awarded and executed. Bond, with approved security, in a sum equal to one-half the amount of contract will be required of the successful bidder, failing to furnish which, within fifteen days after award of contract, will forfeit the deposit made with bid. Detailed plan and specifications for the work are on file with the Clerk, George T. Lucas, Mt. Pulaski, Illinois, or may be seen at the office of A. B. Alexander, City Engineer, Decatur, Illinois.

Dated this 8th day of November, A. D. 1906.

W. E. BIRKS,
GEORGE T. LUCAS,
J. W. H. WILLIAMS,
Drainage Commissioners of Lake Fork Special Drainage District, Logan County, Illinois. 21-3t

GRADING AND PAVING.

Newark, N. J.

Sealed proposals will be received by the Committee on Roads and Assessments of the Board of Chosen Freeholders of the County of Essex, State of New Jersey, for grading and paving with Telford pavement the following roads:

Watchung Avenue, Bloomfield, from Broad St. to East Passaic Ave., about ⅞ mile.

High St., in Towns of Bloomfield and Nutley, from East Passaic Ave. to Franklin Ave., about one mile.

Harrison St., in Livingston and West Caldwell, from Eagle Rock Ave. to Swamp Road, about 1 1-3 miles.

Clinton Ave. West, in Irvington and South Orange, from Springfield Ave. to South Orange Ave., about 2¼ miles.

Gregory Ave., West Orange, from Mt. Pleasant Ave. to Luddington Ave., 1 7-10 miles.

Central Ave. and Green Brook Road, Caldwell, from Bloomfield Ave. to Pier Lane, about 3 1-7 miles.

Bids will be received on Wednesday, Dec. 12th, at 3 p. m., at the office of the Committee on Roads and Assessments, Room 312, Court House, Newark, N. J., and at no other time or place.

Plans and specifications may be seen at the above office.

Each road to be bid for separately and each bid to be accompanied by a certified check for One Thousand Dollars ($1,000.00) to ensure the execution of the necessary contract, and to be endorsed on the outside with the name of the bidder and the work he proposes to do. The Committee reserves the right to reject any or all bids.

THOMAS McGOWAN,
21-3t Director.

LAYING SUBMERGED PIPE.

Camden, N. J.

Sealed proposals will be received at Room 2, City Hall, Camden, N. J., until Tuesday Evening, Dec. 4th, 1906, at 8 o'clock, and then publicly opened, for laying submerged pipe line across Cooper's Creek at State St.

Plans and specifications can be seen at the office of the Water Department, Room 2, City Hall, Camden, N. J., or will be mailed upon application.

A certified check or cash to the amount of $1,000 shall accompany each proposal. Conditioned that the party making the bid will execute the contract.

The Committee reserves the right to reject any or all bids and to waive any defect or informality in any bid should it be deemed to the best interests of the City so to do.

Address proposals to Joseph Potter, Chairman. 21-2t

SPILLWAY CANAL.

Troy, N. Y.

Sealed proposals will be received by the Board of Contract and Supply of the City of Troy, New York, until 12 o'clock noon, of Tuesday, the 11th day of December, 1906, for the reconstruction of the Spillway Canal of the Tomhannock Reservoir, including 3,700 cu. yds. concrete in two spillways, stepped masonry overfalls, retaining walls, etc.; 21,700 lbs. reinforcing rods, 7,300 sq. yds. brick pavement; 25,000 cu. yds. excavation; one highway bridge (span 80 ft.), and about 1¾ miles graveled roads.

Plans, specifications, proposal blanks, form of contract and other information can be obtained, by a deposit of five dollars (returnable upon the return of drawings, etc., in good order) at the office of the Commissioner of Public Works, City Hall, Troy, New York.

A certified check for 5 per cent. of the amount of his bid, payable to the Treasurer of the City of Troy, will be required of each bidder, and returned to the unsuccessful bidders upon awarding the contract.

A bond in the full sum of the amount of the contract, with satisfactory sureties, will be required for the faithful performance of the work.

The right is reserved to reject any and all bids. By order of the Board.

HENRY SCHNEIDER,
21-2t Commissioner of Public Works.

Situations Wanted

SUPT. OF CONSTRUCTION—Supt. of broad experience, both in U. S. and Spanish America, desires position; good executive ability; latterly has made concrete a specialty; no objection to traveling; best of references. Address "F. B. 20," c/o Engineering News, New York. 20-2t

SITUATIONS OPEN

DRAFTSMAN.—One with experience in shop buildings and design of steel structures with concrete walls; also general experience in boiler and similar work. Address, giving experience and salary wanted. Location Central Pennsylvania. Address "E. 21," Engineering News, News York. 21-1t

WANTED—Map draftsman by large coal company. Send sample of work, and state salary desired. BOX 452, Frostburg, Md. 21-2t

CIVIL SERVICE EXAMINATIONS—NEW YORK STATE.

Examinations will be held December 15, 1906, for the following positions:

Open to residents and non-residents:

Architectural Draftsman, $15 to $25 a week.

Assistant Civil Engineer, $5 to $6 a day.

Bridge Designer, $1,500 to $1,800.

Bridge Draftsman, $1,200 to $1,500.

Civil Engineering Draftsman, $4 to $5 a day.

Open only to residents of New York State.

Tracer, $40 to $75 a month.

For further particulars and application blank, address CHIEF EXAMINER, State Civil Service Commission, Albany, N. Y. 21-1t

FOR SALE

FOR RENT

Steam Shovel Marion "A"

Reasonable Terms

Good lines of SECOND-HAND EQUIPMENT always on hand

Write us

THE NEW YORK PURCHASING AGENCY Inc.,

21-2t 76 Pine Street, New York

FOR SALE.

STEEL SHEET PILING

100 pieces, 26 feet long, United States Steel Piling Company's pattern. Very reasonable.

ESSEX CONSTRUCTION COMPANY,
7 Fair Building, Indianapolis, Ind. 21-3t

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